Edwards Aquifer Habitat Conservation Plan

Expanded Water Quality Monitoring Report

December 2015

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1.0 INTRODUCTION

The Edwards Aquifer Authority (EAA) and its predecessor agency, the Edwards Underground Water District (EUWD), in cooperation with the U.S. Geological Survey (USGS) and the Texas Water Development Board (TWDB) have maintained a water quality sampling program since 1968. Analyses of these data have been used by the EAA to assess aquifer water quality. This routine or historical sampling program involves the analyses of a broad spectrum of parameters in wells, springs, and streams across the region. The EAA's existing sampling program was expanded with the adoption of the Edwards Aquifer Habitat Conservation Program (EAHCP) to include collection of additional samples and sample types in the immediate vicinity of Comal and San Marcos Springs. The expanded water quality sampling program was developed in accordance with the directives of the EAHCP to identify and assess potential impairments to water quality within the Comal River and headwaters of the San Marcos River systems. The expanded EAHCP sampling requirements are described in the *2015 Water Quality Monitoring Program Strategy for Comal Springs and San Marcos Springs in Support of the Edwards Aquifer Habitat Conservation Plan* (EAHCP Workplan) (EAA, 2014) which is included in Appendix A of this document.

Based on the requirements of the EAHCP Workplan, the expanded sampling program requires the collection of the following sample types:

1. Surface water (base flow) samples
2. Sediment samples
3. Real time instrument (RTI) water quality monitoring
4. Stormwater sampling
5. Passive Diffusion Samplers (PDS)

SWCA Environmental Consultants, Inc. (SWCA) was contracted by the EAA to execute the expanded sampling program in 2014 and 2015, with the exception of RTI water quality monitoring, which is still conducted by the EAA. Surface water quality monitoring was enhanced for 2014 and 2015 by the addition of passive diffusion samplers (PDS) for trace organic compounds analyses, which was conducted by SWCA. A groundwater sampling element was also included in the sampling program, which was to be conducted during periods of extremely low spring flow from Comal and San Marcos springs. The groundwater sampling element of the sampling program was only to be conducted if spring flow rates dropped below 30 cubic feet per second (cfs) at Comal Springs or below 50 cfs at San Marcos Springs. Spring flow rates remained above 30 cfs at Comal Springs and above 50 cfs at San Marcos Springs during 2015 and; therefore, the groundwater sampling element was not conducted. Hydrographs of spring flow are presented in Appendix B.

Prior to the implementation of the EAHCP, the historical sampling program had not specifically addressed surface water quality, sediment quality, real time changes for basic water quality parameters, or stormwater impacts along the Comal River or headwaters of the San Marcos River. Therefore, this expanded sampling program was designed to gather data specific to all of the new parameters. This report presents the surface water, sediment, stormwater and PDS data collected by SWCA in 2015. The data set represents the third year of the program and is not sufficient to establish any long-term trends or patterns.

For purposes of this report, the Comal River may also be referred to as Comal Springs or Comal Springs complex, and the San Marcos River headwaters may also be referred to as San Marcos Springs or San Marcos Springs complex. An overview of surface water, sediment, and stormwater sample locations for Comal and San Marcos springs are shown in Figures 1 and 2. Figures 3–6 provide detailed location data for sample points at the Comal Springs complex. Figures 7–10 provide detailed locations for the sample points at the San Marcos Springs complex.

1.1 Surface Water (Base Flow) Samples

Surface water (base flow) samples are collected twice annually at each spring complex. The Comal Springs complex has five sample locations along the Comal system from the upstream end of Landa Lake (where Blieders Creek empties into the headwaters of Landa Lake) to the south end of the Comal River, upstream of the confluence with the Guadalupe River. In the San Marcos system, surface water samples are collected at seven locations. Sample sites begin at Sink Creek upstream of the headwaters of Spring Lake on the north end of the system and end downstream of Capes Dam on the south end of the system.

Surface water sample locations are designed to provide water quality data for the majority of the surface waters of each spring system and river reach of concern. Samples are collected both above and below where each system's surface waters are influenced by springflow as well as other potential surface water inputs (such as Dry Comal Creek or Purgatory Creek). Surface water samples are analyzed for a broad spectrum of parameters as outlined in Table 1. Surface water samples were collected in March and September 2015.

Regulatory standards for surface water quality vary depending upon type of use. For this report, surface water results are compared to drinking water quality standards (30 TAC, Chapter 290, Subchapter F) for detected constituents of concern. These guidelines were selected for use since in general they provide the most stringent quality standards. For detections of interest that do not have an established maximum contaminant level (MCL) under 30 TAC 290, the Texas Risk Reduction Program (TRRP) from 30 TAC 350 was substituted. The TRRP standards used are the Tier I, residential standards and are referred to as protective concentration levels (PCLs). Pharmaceutical and Personal Care Products (PPCP) including caffeine can be chemicals of concern because they can indicate the presence of contamination from anthropogenic sources including wastewater discharge (U.S. Environmental Protection Agency [EPA], 2012). Currently, there are no regulatory standards to compare caffeine detections against, but results are listed in this report to provide an indication of potential anthropogenic impacts. Additionally, bacteriological results were compared with Texas Surface Water Quality Standards for primary recreational waters (30 TAC, Chapter 307, Rule 307.7). The 30 TAC 307.7 standards are typically applied to waters affected by anthropogenic sources and are used here solely to provide a reference level for bacterial counts. Other guidelines may be more useful or appropriate for particular research; however, for the scope of this report these standards provide an appropriate and applicable guideline with regard to water quality.

Table 1. Listing of Analytical Parameters by Sample Type

Analytical Parameter	Surface Water (Base Flow) Samples	Stormwater Samples	Sediment Samples	PDS
Volatile Organic Compounds (VOCs)	Yes	Yes	Yes	Yes*
Semi-volatile Organic Compounds (SVOCs)	Yes	Yes	Yes	Yes*
Organochlorine Pesticides	Yes	Yes	Yes	Yes*
Polychlorinated Biphenyls (PCBs)	Yes	Yes	Yes	No
Organophosphorous Pesticides	Yes	Yes	Yes	No
Herbicides	Yes	Yes	Yes	No
Metals (Al, Sb, As, Ba, Be, Cd, Cr [total], Cu, Fe, Pb, Mn, Hg, Ni, Se, Ag, Tl, and Zn)	Yes	Yes	Yes	No
General water quality parameters (GWQP), total alkalinity (as $CaCO_3$), bicarbonate alkalinity (as $CaCO_3$), carbonate alkalinity (as $CaCO_3$); Cl, Br, NO_3, SO_4, Fl, pH, total dissolved solids (TDS), total suspended solids (TSS), Ca, Mg, Na, K, Si, Sr, CO_3,	Yes	Yes	No *TDS, TSS, or TKN*	No
Phosphorus (total)	Yes	Yes	Yes	No
Total Organic Carbon (TOC),	Yes	Yes	Yes	No
Dissolved Organic Carbon (DOC)	Yes	Yes	Yes	No
Total Kjeldahl Nitrogen (TKN)	Yes	Yes	Yes	No
Bacteria (*E. coli*)	Yes	Yes	No	No
Field Parameters (DO, pH, Conductivity, Turbidity, Temperature)	Yes	Yes	No	No
Caffeine	Yes	Yes	No	No

* Passive diffusion samplers (PDS) samplers are analyzed for a modified set of VOCs, SVOCs, and organochlorine pesticides

Figure 1. EAHCP expanded water quality monitoring program, Comal Springs and River.

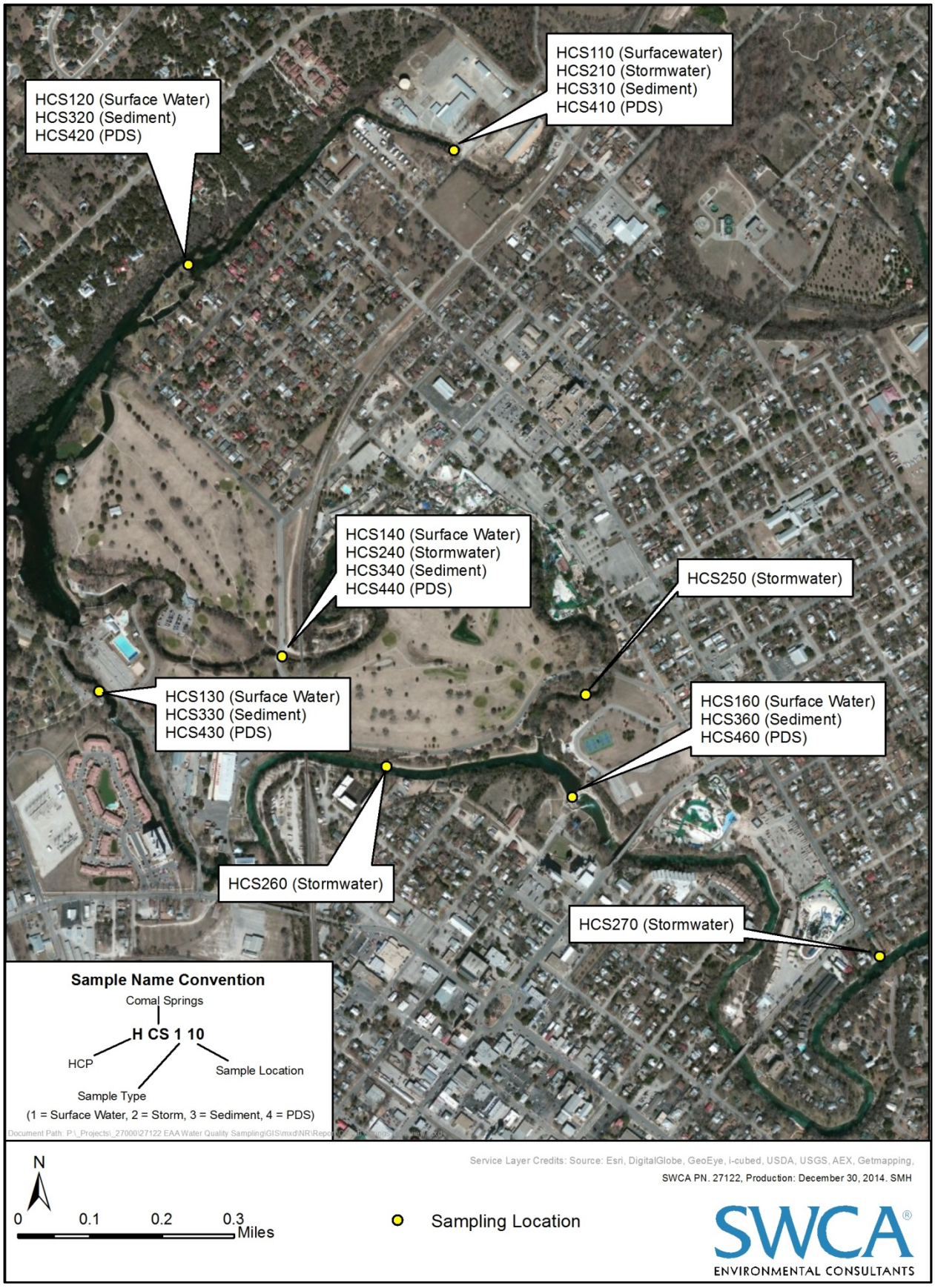
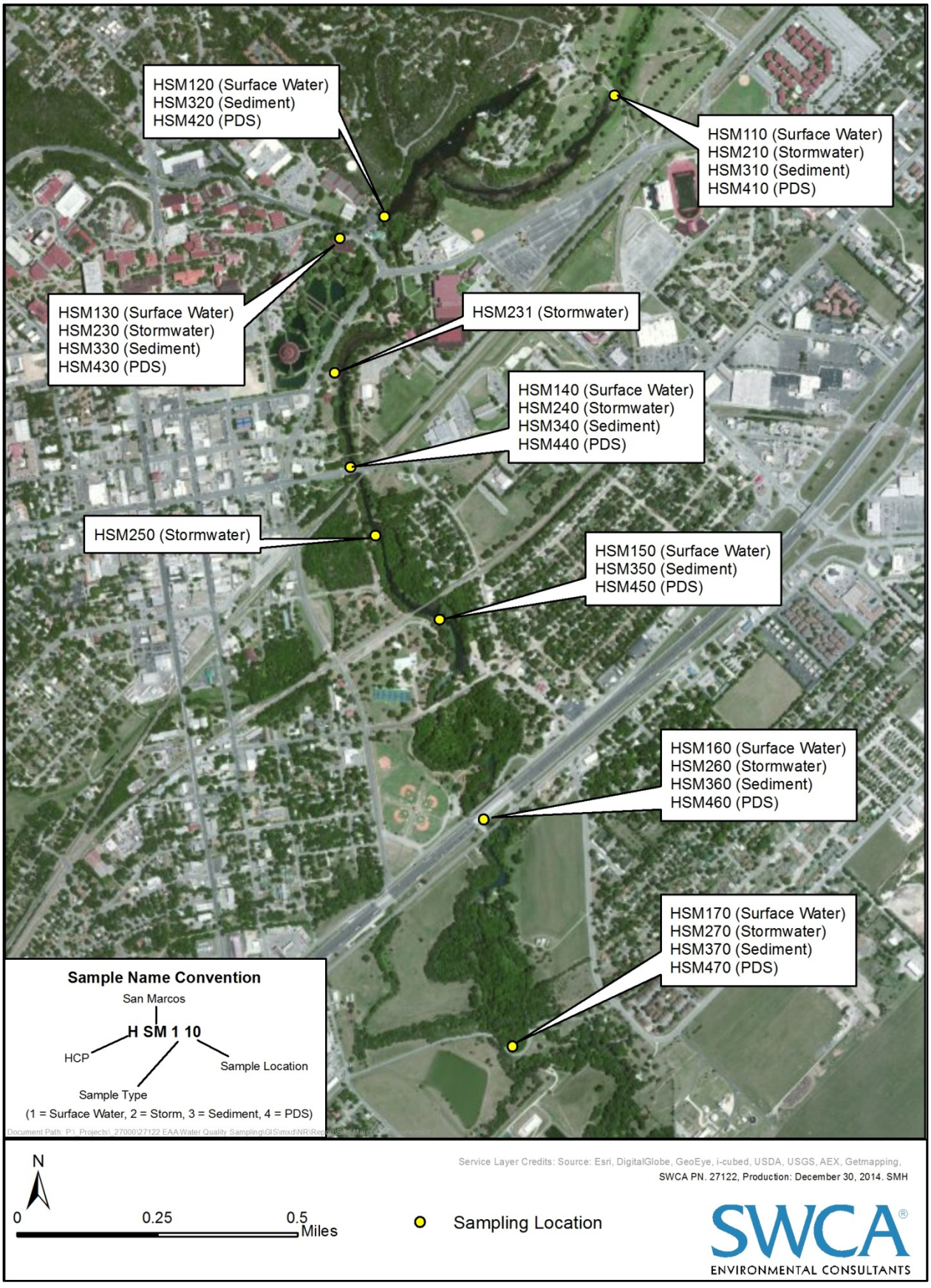


Figure 2. EAHCP expanded water quality monitoring program, San Marcos Springs and River.



1.2 Sediment Samples

Collection of sediment samples within each spring system was included in the program to help ascertain potential effects on listed species via direct or indirect exposure to sediments. Designated sediment sample locations were coincident with surface water (base flow) sample locations at each spring complex. Specifically, five sediment samples were collected from the Comal Springs area, and seven locations were sampled within the San Marcos area. In the first two years of the program sediment samples were collected from the sediment surface to approximately 18 inches below the surface. For 2015, the EAHCP workplan was changed to include sampling only the first three inches below the surface of the sediment. Samples were analyzed for the parameters listed in Table 1.

Sediment samples were collected as close to each associated surface water sample locations as possible. However, for some of the samples, collection points were moved slightly to find adequate sediment or to avoid rocky substrates that prevented collection of adequate sample volume. Appendix C of this report discusses sample locations where any significant deviations from this approach occurred.

Analytical results for sediment samples are compared to the sediment quality guidelines published in *Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems* (MacDonald, Ingersoll, and Berger, 2000). These guidelines are based on determination of probable sediment toxicity in freshwater ecosystems and provide a numerical sediment quality guideline for 28 chemicals of concern. The guidance provides two basic standards for comparison: 1) threshold effect concentration (TEC), and 2) probable effect concentration (PEC). PEC values for additional chemicals of concern that were not included in MacDonald et al. (2000) were taken from *Conducting Ecological Risk Assessments at Remediation Sites in Texas* developed by the Texas Commission on Environmental Quality (TCEQ, 2014a). Analytical results with a concentration below the TEC are predicted to be non-toxic (on sediment-dwelling organisms), while results with a concentration above the PEC are indicated as having a probable toxic effect on sediment-dwelling organisms. Detected compounds with concentrations between the TEC and PEC are considered equally likely to be toxic or non-toxic. While numerous other guidelines for sediment quality exist, these guidelines provide a good reference for the scope of the current investigation. Future researchers may find other guidelines more specific to particular concerns or interest.

1.3 Stormwater Samples

Stormwater sampling was performed at five Comal Springs locations and at seven San Marcos Springs locations. Stormwater sample collection was adopted as part of the expanded water quality monitoring effort to assess potential contaminants that may be present in surface water runoff generated by storm events. The stormwater sampling effort was designed to assess what changes in water quality occur within each surface water system during a storm event. Storm samples were collected in association with various surface water inputs along each spring complex within the study area. Appendix C of this report discusses details of each stormwater sample location and any deviations from the EAHCP workplan. Stormwater samples were analyzed for the same parameters as surface water (base flow) samples as outlined in Table 1.

Stormwater samples were collected at three points across the storm hydrograph for each stormwater sampling site. Sample collection was targeted for the rising limb, peak, and receding limb of the storm

hydrograph. Timing for sample collection was generally determined using the RTI system's conductivity and turbidity parameters rather than the flow measurements from the USGS streamflow gauges. The USGS gauges are only updated on an hourly basis whereas data from the RTIs was available on 15-minute intervals and provided more timely information. Automated sample collection equipment was not utilized for stormwater sample collection due to sample volume, preservation, and analysis limitations. Therefore, sampling was conducted manually. Each spring group was sampled twice for stormwater events during calendar year 2015 per the EAHCP Workplan.

As previously mentioned, standards for surface water quality vary dependent upon type of use. For this report, stormwater results are compared to drinking water quality standards (30 TAC, Chapter 290, Subchapter F) for detected chemicals of concern. These guidelines were selected for use since, in general, they provide the most stringent quality standards. For detections of interest that do not have an established MCL under 30 TAC 290, the TRRP PCLs from 30 TAC 350 was substituted. The TRRP standards used are the Tier I, residential standards. Currently, there are no regulatory standards to compare caffeine detections against, but results are listed in this report to provide an indication of anthropogenic contamination. Bacterial counts were compared with Texas Surface Water Quality Standards (30 TAC 307). Other guidelines may be more useful or appropriate for particular research; however, for the scope of this report these standards provide an appropriate and applicable guideline with regard to water quality.

1.4 Surface Water Passive Sampling

Amplified Geochemical Imaging (AGI) LLC, PDSs were deployed in both spring complexes to measure trace organic constituents. Samplers consisted of a sorbent solid phase material that concentrates compounds from the environment. Following collection, the analytes of interest were eluted and analyzed by gas chromatography coupled with a mass spectrometry detector (GC-MS). The increased contact time associated with long-term deployment of the collection material allowed the analytes to be greatly concentrated beyond what is typically found in water samples. Therefore, the PDS provides greater sensitivity to trace level constituents. Analyzed parameters can be found in Table 1.

PDS samplers were deployed to each of the 12 sample sites for two-week periods in February, April, June, August, October and December 2015. Sample points coincided with surface water collection points unless prevented by field conditions, and any alterations are discussed in Appendix C.

2.0 SAMPLE LOCATION DETAIL

Details of individual sample locations are provided in the following figures. Figures 3–6 show sample location details for the Comal Springs area. Figures 7–10 provide sample location details for the San Marcos Springs area.

Figure 3. EAHCP Comal Springs detailed map indicating sample locations 110, 210, 310, 120, and 320.

Figure 4. EAHCP Comal Springs detailed map indicating sample locations 130 and 330.

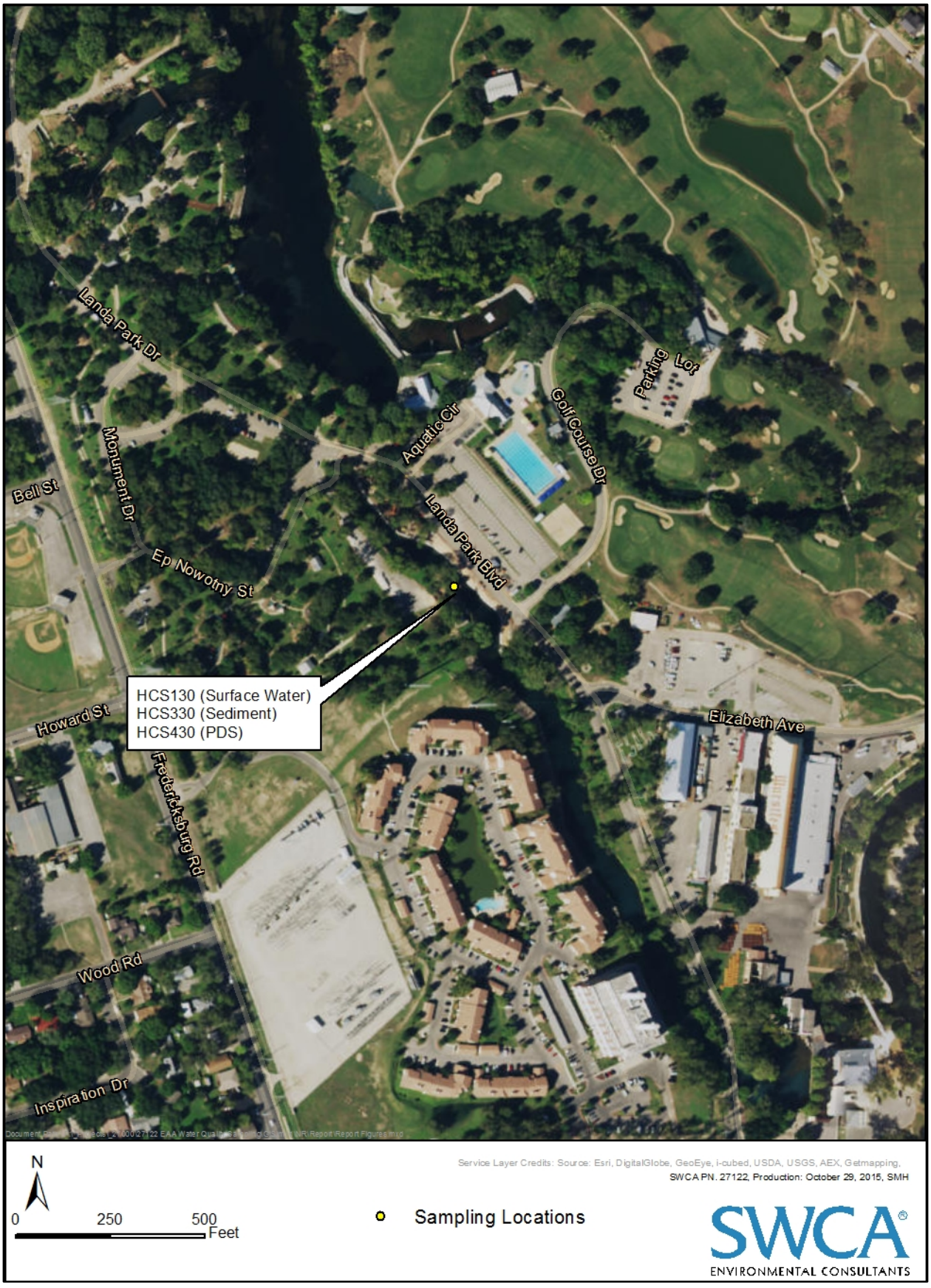


Figure 5. EAHCP Comal Springs detailed map indicating sample locations 140, 240, 340, 250, 160, 260, and 360.

Figure 6. EAHCP Comal Springs detailed map indicating sample location 270.

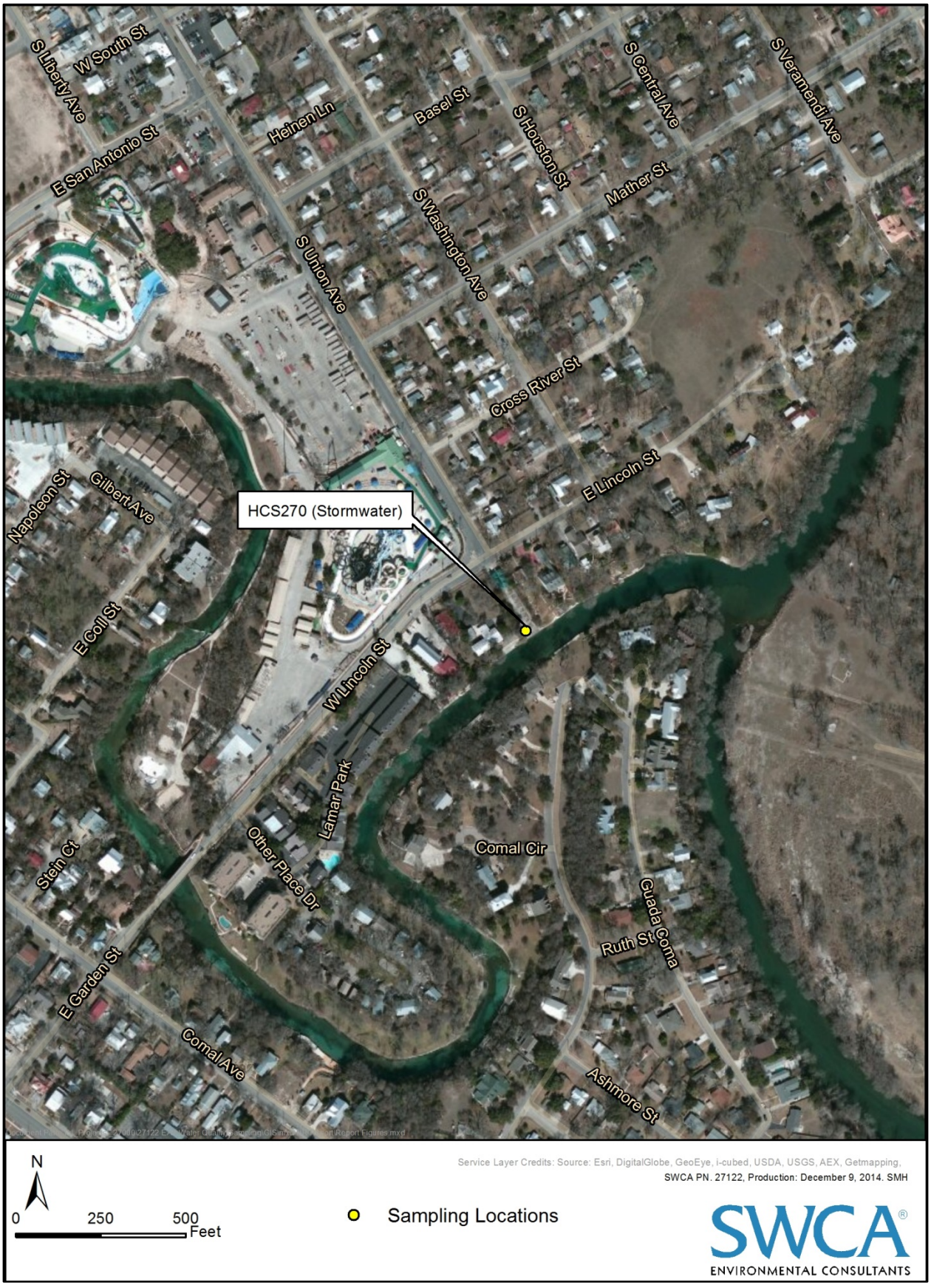


Figure 7. EAHCP San Marcos Springs detailed map indicating sample locations 110, 210, 310, 120, and 320.

Figure 8. EAHCP San Marcos Springs detailed map indicating sample locations 130, 230, 330, 231, 140, 240, and 340.

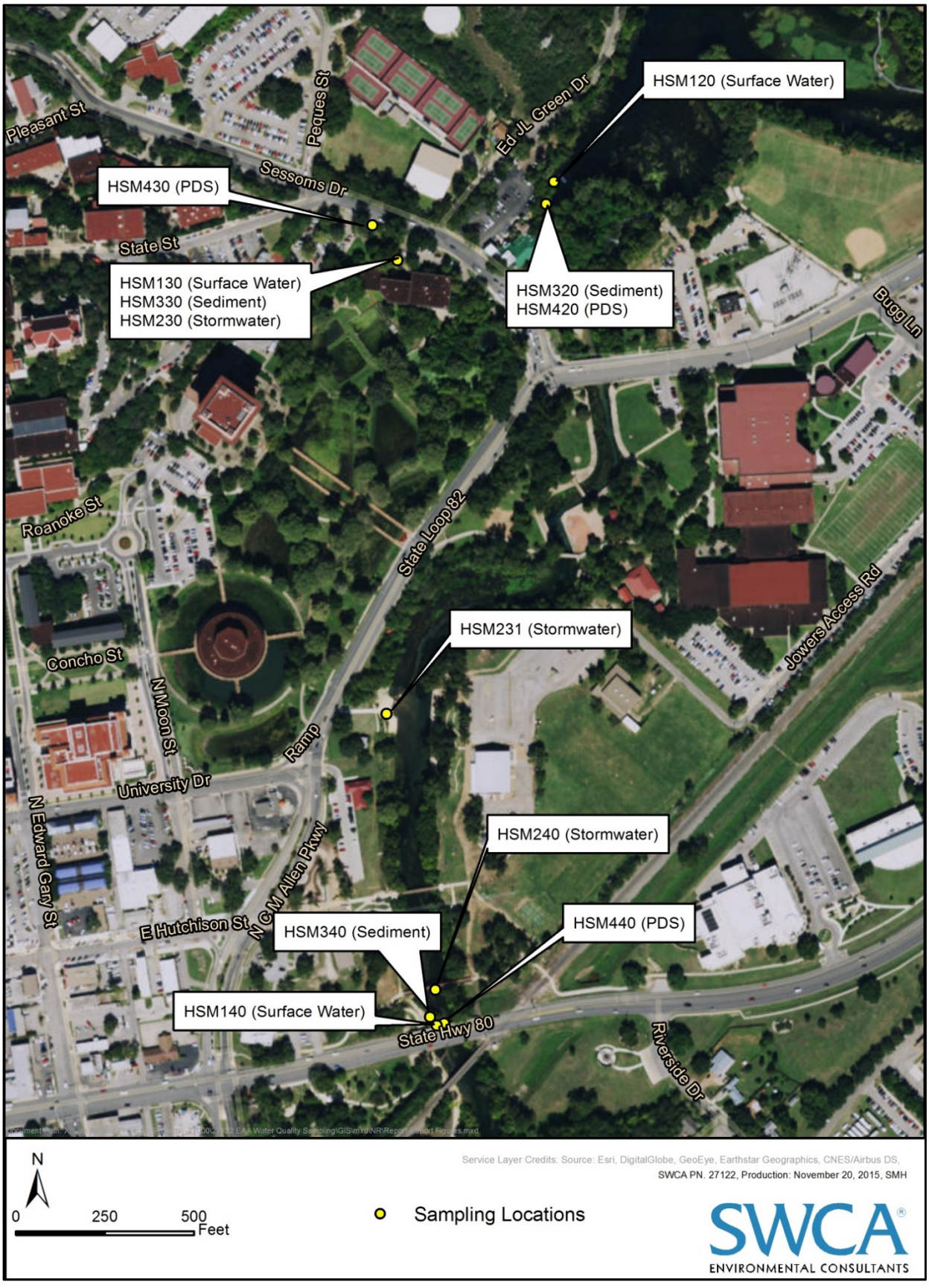


Figure 9. EAHCP San Marcos Springs detailed map indicating sample locations 150, 250, and 350.

Figure 10. EAHCP San Marcos Springs detailed indicating map sample locations 160, 260, 360, 170, 270, and 370.

3.0 MODIFICATIONS OF ACTIVITIES DUE TO DROUGHT

Sampling activities continued to be affected by drought conditions within the project area. Significant rainfall occurred during the first half of 2015, which contrasted severe drought conditions experienced in 2014. However, rainfall was very sparse from July through much of October. Rain events were generally scattered in nature and often too small in magnitude to generate sufficient runoff to sample. To collect the stormwater sample events for the second half of 2015, both spring complexes were sampled on the same day during the October 23, 2015, storm event. Due to the high probability that the October 23, 2015, storm event would be of the size and magnitude sufficient to sample, additional personnel and resources were made available to sample at both spring complexes on the same day.

Also, due to abundant rainfall in the spring of 2015, flow rates did not drop below 30 cfs at Comal Springs, or below 50 cfs at San Marcos Springs. No extreme low-flow sampling was initiated at water wells (Sections 6.4.3.3 and 6.4.4.3 of the Edwards Aquifer Habitat Conservation Plan).

4.0 AFFECT ON COVERED SPECIES

The implementation of the EAHCP water quality and sediment sampling program provided baseline data along the Comal River and upper reaches of the San Marcos River system. Water quality grab samples were collected twice from each river during base flow conditions and during two storm events. Sediment samples were also collected from both systems. PDSs were used to evaluate trace organic compounds six times throughout the year.

The collection and analysis of water quality and sediment samples aids evaluation of the habitat of species by providing base flow, storm flow, and sediment quality data. The data included water quality discharging directly from the springs and water discharging into the Comal and San Marcos Rivers below the springs.

In Section 7, analytical results are compared to various water quality and sediment standards as guidelines to identify any existing problems and create a body of baseline data to ascertain any long-term sediment and water quality trends.

5.0 LOGISTICS

To accommodate the needs of the EAHCP's expanded water quality monitoring program, a significant amount of resources are required. These resources, including sampling equipment, safety gear, trained staff, and sampling schedules, are all key components to the program. In addition, the development of sampling strategies and planning of each sampling event is required to insure that resources are used efficiently, and collection is completed within the scheduled time frame. The strategies must account for the unpredictable nature of storm events. Below is a short synopsis of events and tasks undertaken to accomplish the necessary logistics for the EAHCP sampling program.

5.1 Surface Water Sampling Program

Prior to each sampling event, SWCA staff acquired necessary supplies and equipment including laboratory sample kits, disposable bailers, and 0.45-micron filters.

5.2 Sediment Sampling Program

In May 2015, SWCA staff purchased trowels for sediment sampling and acquired sample containers from the contract laboratory.

5.3 Stormwater Program

Prior to each sampling event, laboratory sample kits were acquired and prepared for use in the field. All other sampling and safety supplies were kept stocked and ready for mobilization in the event a storm occurred. Weather forecasts are monitored on a regular basis to determine if teams would be mobilized for a potential sampling event. Prior to mobilization many logistical concerns have to be addressed including, but not limited to, personnel availability, safety, base camp reservation, vehicle availability, sonde rental, laboratory notifications, and preparing checks for laboratory payment.

5.4 Surface Water Passive Sampling Program

PDS were acquired from the contract laboratory approximately two weeks prior to each sampling event. Sample deployment devices were constructed in 2014 but were decontaminated and placed inside clean plastic bags the day before or day of each deployment.

6.0 SAMPLE COLLECTION METHODOLOGY

6.1 Surface Water / Base Flow Sampling Program

Surface water quality base flow grab samples were collected from five sites throughout the Comal Springs complex and seven sites throughout the San Marcos Springs complex biannually. According to the EAHCP workplan, the sample dates were to be six months apart. The preferred method for obtaining a surface water sample is to reach the sampling location from the shoreline or wade to the sample location, obtain field parameters (pH, specific conductivity, dissolved oxygen, and temperature) and then insert the sample bottle directly into the water or use a sample bottle and pole assembly. SWCA collected samples directly within sample bottles as opposed to using a pole assembly. Samples collected while wading were collected on the upstream side of the sampler. Samples were collected in accordance with the criteria set forth in the *EAA Groundwater Quality Monitoring Plan.*

Filtration for methods 6010B (metals), 6020 (metals), 7470A (mercury) and field alkalinity were performed at the sample location by using a 0.45-micron high capacity cartridge filter attached to a weighted, single-sample disposable bailer. Preservatives were placed in the bottles (as appropriate) by the contracted laboratory. Ice was placed into the cooler prior to or immediately after sampling and later shipped to the contract laboratory. When not in use or after collection, sampling equipment and/or coolers containing samples were secured inside the SWCA vehicles to maintain appropriate sample custody and security.

The *EAA Groundwater Quality Monitoring Plan* required the collection of one field duplicate sample for each spring complex per sampling event. The field duplicate was sampled immediately after the parent water quality sample and in the same manner as the parent water quality sample.

Analyses for field alkalinity were conducted at SWCA's San Antonio office. The method used for field alkalinity is discussed in detail in the *EAA Groundwater Quality Monitoring Plan* (Appendix D). Representative photographs of field activities are included in Appendix E.

6.2 Sediment Sampling Program

Sediment samples were collected once annually from the first three inches of sediment below the streambed surface at each of the 12 sampling locations. Sediment sample collection points generally coincided with the surface water collection points at each of the 12 sample locations in the spring complexes but varied slightly based on field conditions. Based on the amount of available sediment at each site, the location and area sampled varied. Sample collection location variations are discussed in Appendix C. Sediment sample collection methods were consistent with the guidelines established in the *EAA Groundwater Quality Monitoring Plan.* The majority of samples were collected using stainless steel hand trowels. The trowel was inserted into the sediment three inches, and the sample was scooped into sample containers provided by the contract laboratory. One 8-ounce jar and one 2-ounce jar for volatile organic compound (VOC) analysis were collected at each location. Samples were composed of sediment collected at three locations at each sample point and were individually homogenized at the contract laboratory prior to analysis. The water depth at HCS330 made it impossible to collect a sample using hand trowels; instead the sample was collected using a hand core sampler consisting of a two-inch-diameter, 20-inch-long stainless steel barrel with a plastic tube liner. Samples were extruded from the sample tube and into the sample containers.

In compliance with the *EAA Groundwater Quality Monitoring Plan* and consistent with the EAA practices of 2013, two field duplicates and two equipment blanks were collected. One field duplicate sample is required for each spring complex. The field duplicates were collected at the same locations as two of the field samples using the same methods as the field samples. Two equipment blanks were prepared in the laboratory of SWCA's San Antonio office. To collect one of the blanks, American Society for Testing and Materials (ASTM) Type II Reagent Grade water was poured through a new plastic sampling tube into sample collection containers. The second equipment blank was collected by pouring ASTM Type II Reagent Grade water over a decontaminated trowel into sample collection containers. The samples were containerized in the same manner as a surface water sample using the same types of containers and preservatives. Sample portions for metals analyses requiring field filtration were filtered using a 0.45-micron high capacity cartridge filter and disposable bailer. The equipment blanks were not analyzed for the following analytes: field parameters, turbidity, field alkalinity, and bacteria.

All samples were labeled and put on ice immediately upon collection for later shipment to the contract laboratory. Samples were secured inside locked SWCA vehicles during field operations and appropriate custody was maintained at all times. Representative photographs of field activities are included in Appendix E.

6.3 Stormwater Sampling Program

Stormwater samples are designated by the EAHCP Workplan (Appendix A) for collection twice annually from each spring complex. Stormwater samples were collected when rainfall amounts were adequate to initiate at least a five percent rise at the respective USGS gauging locations for each spring complex. Samples were collected across the storm-affected stream hydrograph at the rise, peak, and recession limb

of the associated stream hydrograph. As with the other sample types, five locations at Comal Springs and seven locations at San Marcos Springs were sampled. In general, the turbidity and conductivity data from the RTIs at each site were used as a surrogate for the stream hydrograph due to immediate availability of the data. Stream hydrograph data is only updated hourly on the USGS website. The RTI data is updated every fifteen minutes, which provides greater resolution regarding the effect of the storm event on the streams and facilitates quicker sampling response times. Graphs showing water quality parameters during each storm event are included in Appendix B.

Stormwater sample collection was affected by the ongoing drought conditions across the region during the second half of 2015. Often, storms that materialized were insufficient to create adequate runoff for sample collection. As a result, members of the stormwater sampling team spent many more hours on-call than were expected. In general, when rainfall probabilities exceeded 20 percent for a given time period, the team was placed on-call for sample collection. The team was mobilized when rainfall probabilities exceeded 50 percent. Multiple scenarios involved a mobilization that was later cancelled due to insufficient rainfall or storms that dissipated prior to reaching the sample area. Storm team duty is summarized and documented in Appendix F of this document.

Due to the inherently unsafe conditions associated with stormwater flow, SWCA field staff used disposable single-use bailers when needed in order to safely obtain water samples during stormwater sampling events. Field parameters were collected first by inserting the sonde probe as close to the sample location as possible. In May and October 2015, sample location HSM240 was sampled using disposable bailers. Bailers were lowered from the bridge above the sample location. A rope affixed to the bailer was used for retrieval. New bailers and rope were used for each sample point. After retrieval the water was transferred to the sample containers. Only new disposable equipment was used for stormwater sampling events.

Stormwater sampling efforts conformed to the protocols outlined in the *EAA Groundwater Quality Monitoring Plan* for sample collection, handling, and decontamination. Filtration for methods 6010B (metals), 6020 (metals), and field alkalinity were performed using a 0.45-micron high capacity cartridge filter and peristaltic pump. Preservatives were placed in the bottles (as needed) by the contract laboratory prior to sample collection. All samples were immediately placed into coolers with ice after sampling and later shipped to the contract laboratory. When not in use or after collection, sampling equipment and/or coolers containing samples were secured inside locked SWCA vehicles to maintain appropriate sample custody and security.

According to the *EAA Groundwater Quality Monitoring Plan*, two field duplicates were collected for the Comal Springs complex and three field duplicates for the San Marcos Springs complex per rain event. Field duplicates were sampled after collection of the parent sample and in the same manner as the field sample. No equipment blanks were required for stormwater samples as all equipment used was new and disposable.

Analyses for field alkalinity were performed at the field staging area or at SWCA's San Antonio office. The method used for field alkalinity is discussed in detail in the *EAA Groundwater Quality Monitoring Plan.* Representative photographs of field activities are included in Appendix E.

6.4 Surface Water Passive Samplers

The PDSs were deployed at each of the 12 sample locations during the months of February, April, June, August, October and December 2015. In general, PDS locations corresponded to surface water sampling points unless prevented by field conditions. Lost PDSs, human tampering, and any variations in deployment locations are discussed in Appendix C.

Deployment devices were constructed by SWCA staff at SWCA's San Antonio office in June 2014. Two-inch thick, 18-inch diameter concrete disks were poured and a stainless steel silverware cup was set approximately one inch deep in the center of the disk. Handles were formed by inserting both ends of an 18-inch length of vinyl-coated stainless steel cable into each side of the disk. Site numbers were marked in the wet concrete to dedicate each device to a sample location. The concrete was allowed to cure, and each device was decontaminated following the *EAA Groundwater Quality Monitoring Plan* guidelines and placed in a clean plastic bag prior to the first deployment. The same decontamination procedures were followed for subsequent sampling events. The deployment device is pictured in Figure 11.

Upon arrival at the sample location, the PDS was removed from a dedicated vial and affixed inside of a second stainless steel silverware cup with a plastic cable tie. This cup was inverted and placed on top of the cup set in the concrete sampling device enclosing the PDS inside the two cups. The two cups were secured to one another with additional plastic cable ties. The device was then gently lowered into the water. Installation date and time and PDS identification numbers were noted in the field notebook and on the PDS vial. To retrieve the PDS, the devices were simply removed from the water and the cable ties cut. The PDS was then immediately placed back in the dedicated vial and retrieval date and time were notated. Deployment devices were secured at SWCA offices when PDSs were not deployed.

Field duplicates were collected as directed by the *EAA Groundwater Quality Monitoring Plan*. To collect field duplicates, a second PDS was installed inside selected deployment devices. Field PDSs were always accompanied by test blank samplers to monitor for VOC contamination. Deployment devices were dedicated to each sample location to avoid cross contamination and were decontaminated following the *EAA Groundwater Quality Monitoring Plan* guidelines prior to each use. Representative photographs of field activities are included in Appendix E.

Figure 11. PDS deployment device prior to installation at site HSM440.

7.0 SAMPLE RESULTS

Results from the sampling efforts related to the EAHCP sampling program are discussed in the paragraphs that follow. Results are discussed by sample type for Comal Springs, followed by a separate discussion by sample type for San Marcos Springs. Sample events are listed in the order of surface water (base flow) samples, sediment samples, stormwater samples, and PDS. Laboratory analyses and field parameters are provided in Appendix G of this document. The laboratory data were reviewed by SWCA staff with the results of that review provided as Appendix H (data validation discussion) of this document. Each sample location (latitude/longitude), name, and other location information are also summarized in Appendix I of this document.

7.1 Comal Springs Sample Results

The Comal Springs complex was sampled for water quality during surface water base flow conditions in March and September 2015. In general, few detections were noted. As discussed previously, surface water base flow samples are compared to the drinking water standards for water quality in this report.

Sediments at the Comal Springs complex were sampled in June 2015. Sediment results are compared to the standards developed by McDonald et al. (2000) and TCEQ (2014a). These standards are based on the probability that a detected compound has a toxic effect on sediment-dwelling organisms and are referred to as the TEC and PEC. Detections below the TEC are not considered to be toxic, while detections above the PEC are considered to be toxic to sediment dwelling organisms. Detections above the TEC but less than the PEC are considered equally likely to be toxic or non-toxic.

Stormwater events were sampled at the Comal Springs complex in January and October 2015. Stormwater results did not indicate a significant number of detections of concern.

PDS sampling events were conducted at the Comal Springs complex in February, April, June, August, October, and December 2015. Generally speaking, various VOCs and total petroleum hydrocarbons (TPH) were detected at various sample locations, but only tetrachlorethene and TPH were relatively consistently detected.

7.1.1 Comal Springs Surface Water / Base Flow Sampling

The Comal Springs complex was sampled on March 16 and September 9, 2015, for surface water (base flow) events.

7.1.1.1 Surface Water / Base Flow - Bacteria

Bacteria results for surface water (base flow) associated with the Comal Springs complex ranged from 4 MPN/100 mL (most probable number of colony-forming units per 100 milliliters of water) to 800 MPN/100 mL for *E. coli*. Because of the presence of various fauna in surface water collection sites, positive detections are not uncommon. The 2014 Texas Surface Water Quality Standard for *E. coli* in primary recreation waters is a geometric mean of 126 MPN/100 mL with no individual sample exceeding 399 MPN/100 mL (30 TAC 307.7). The geometric mean for surface water samples collected from the Comal Springs complex during 2015 was 79.2 MPN/100 mL. Two samples exceeded the maximum limit of 399 MPN/100 ml, as described below.

- HCS110, sampled in September 2015, had a concentration of 800 MPN/mL
- HCS130, sampled in September 2015, had a concentration of 460 MPN/mL

Surface water (base flow) bacteria counts are summarized in Table 2.

Table 2. Surface Water Samples – Bacteria Counts - Comal Springs Complex

Location	Date	Count (MPN/100 mL)
HCS110	3/16/2015	4
	9/9/2015	800
HCS120	3/16/2015	47
	9/9/2015	67
FDHCS120	3/16/2015	51
	9/9/2015	54
HCS130	3/16/2015	59
	9/9/2015	460
HCS140	3/16/2015	80
	9/9/2015	140
HCS160	3/16/2015	60
	9/9/2015	120

MPN/100 mL – Most probable number per 100 milliliters of water.

7.1.1.2 Surface Water / Base Flow - Volatile Organic Compounds (VOCs)

No VOCs were detected at any of the five sampling sites from the Comal Springs complex during the March or September 2015 sampling events. However, there was a detection of VOCs in the VOC Trip Blank during the September sampling event. The Trip Blank tested positive for 0.25 micrograms per liter (µg/L) for toluene, which was below the laboratory reporting limit and not detected in any field samples.

7.1.1.3 Surface Water / Base Flow - Semi-volatile Organic Compounds (SVOCs)

Generally, Semi-volatile Organic Compounds (SVOCs) were analyzed because their detection can indicate the presence of chemicals originating from anthropogenic sources and therefore be used to evaluate potential impacts on water quality. No SVOCs were detected at any of the five sampling sites in the Comal Springs complex during the March or September 2015 sampling events.

7.1.1.4 Surface Water / Base Flow - Pesticides

Surface water samples were analyzed for pesticides because their detection can indicate the presence of chemicals originating from anthropogenic sources and therefore be used to evaluate potential impacts on water quality. No pesticides were detected in any of the samples collected for either the March or September 2015 sampling events at all five sites for the Comal Springs complex.

7.1.1.5 Surface Water / Base Flow - Herbicides

Surface water samples were analyzed for herbicides because their detection can indicate the presence of chemicals originating from anthropogenic sources and therefore be used to evaluate potential impacts on water quality. Herbicide analyses indicated no detections for both the March and September 2015 sampling events at all five sites for the Comal Springs complex.

7.1.1.6 Surface Water / Base Flow - Polychlorinated Biphenyls (PCBs)

Surface water samples were analyzed for the various Aroclor compounds that are collectively referred to as Polychlorinated Biphenyls (PCBs). PCB detection can indicate the presence of chemicals originating from anthropogenic sources and therefore, be used to evaluate potential impacts on water quality. No PCBs were detected during both the March and September 2015 sampling events at all five sites for the Comal Springs complex.

7.1.1.7 Surface Water / Base flow - Metals

Surface water samples were analyzed for metals that may indicate the presence of chemicals originating from anthropogenic sources. Although metals were detected for the March and September 2015 sampling events at all five sites for the Comal Springs complex, no metals were detected at a concentration in excess of the drinking water standards. The metals aluminum, antimony, arsenic, barium, chromium, copper, iron, lead, manganese, nickel, selenium, thallium and zinc were the detected metals of concern; however, none of their concentrations approached the MCL. These detections are listed below in Table 3, and note many detections are "J" flagged, indicating the detected concentration is below the laboratory reporting limit, but above the method detection limit. Also note that some metals are naturally occurring in rock, soil, groundwater, and surface water and may not indicate an anthropogenic source.

Table 3. Surface Water Samples – Metal detections - Comal Springs Complex

Location	Date Collected	Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Zinc (mg/L)	Aluminum (mg/L)	Iron (mg/L)	Manganese (mg/L)
HCS110	3/16/2015	0.000118 J	<0.000386	0.0371	<0.000402	0.000547 J	<0.0000898	0.0017	0.000295 J	<0.000101	0.0245	<0.00331	0.052	0.00243
	9/9/2015	<0.0000995	0.000505 J	0.0582	0.000492 J	0.00457	<0.0000898	0.00199	0.000503 J	<0.000101	0.0314	0.00923 J	0.0424 J	0.00481
HCS120	3/16/2015	<0.0000995	<0.000386	0.0555	<0.000402	0.000538 J	<0.0000898	0.00201	0.000334 J	<0.000101	0.0239	<0.00331	0.046 J	0.00178
	9/9/2015	<0.0000995	0.000388 J	0.0549	0.000524 J	0.00504	<0.0000898	0.00182	0.000521 J	0.000121 J	0.00984	0.00699 J	0.0364 J	0.00082 J
FDHCS120	3/16/2015	0.000166 J	<0.000386	0.0562	0.000426 J	0.000783 J	0.000117 J	0.00225	0.000414 J	<0.000101	0.0391	0.00459 J	0.0555	0.00607
	9/9/2015	<0.0000995	<0.000386	0.0537	0.000482 J	0.00078 J	<0.0000898	0.00187	0.000932 J	<0.000101	0.00773	0.00954 J	0.0406 J	0.00064 J
HCS130	3/16/2015	<0.0000995	<0.000386	0.0574	<0.000402	0.00057 J	<0.0000898	0.00184	0.000347 J	<0.000101	0.00384 J	<0.00331	0.0468 J	0.00459
	9/9/2015	<0.0000995	<0.000386	0.0553	0.000555 J	0.0016	<0.0000898	0.00204	0.000744 J	0.000109 J	0.0159	0.00749 J	0.0465 J	0.00114
HCS140	3/16/2015	<0.0000995	<0.000386	0.0584	<0.000402	0.000907 J	0.0000905 J	0.00197	0.000446 J	<0.000101	0.0118	<0.00331	0.0399 J	0.00632
	9/9/2015	0.000106 J	<0.000386	0.0555	0.000583 J	0.00276	0.000112 J	0.00228	0.00229	<0.000101	0.035	0.00923 J	0.0451 J	0.00137
HCS160	3/16/2015	0.000107 J	<0.000386	0.0598	<0.000402	0.000607 J	<0.0000898	0.00216	0.000334 J	<0.000101	0.0265	<0.00331	0.0508	0.00991
	9/9/2015	<0.0000995	<0.000386	0.055	0.000645 J	0.0066	<0.0000898	0.00235	0.00193	<0.000101	0.00714	0.00801 J	0.0399 J	0.00269
MCL		0.006	0.01	2	0.1	NE	NE	NE	0.05	0.002	NE	NE	NE	NE
PCL		--	--	--	--	1.3	0.015	0.49	--	--	7.3	24	NE	1.1

-- – Not applicable

J – Detection is above the method detection limit, but below the reporting limit

MCL – maximum contaminant level

mg/L – milligrams per liter

NE – Not established

MCL – maximum contaminant level

PCL – protective concentration levels

7.1.1.8 Surface Water / Base Flow - Nitrates

Surface water samples were analyzed for nitrate-nitrite as nitrogen. Laboratory analyses indicated a limited range of nitrate-nitrite as nitrogen in surface water samples. Of the 12 surface water samples (ten environmental samples and two field duplicates) collected for the two sample events, concentrations ranged from 0.35 milligrams per liter (mg/L) to 1.8 mg/L. None of the nitrate concentrations detected exceeded the MCL of 10 mg/L for drinking water. The highest nitrate concentration in surface water at the Comal Springs complex, 1.8 mg/L, was detected in five samples. These five samples were HCS130 sampled on March 16, 2015, and HCS120, FDHCS120, HCS130 and HCS160 all collected on September 9, 2015. Nitrate-nitrogen results are summarized in Table 4.

Table 4. Surface Water Samples – Nitrate Detections - Comal Springs Complex

Location	Date	Concentration (mg/L)
HCS110	3/16/2015	0.35
	9/9/2015	1.2
HCS120	3/16/2015	1.7
	9/9/2015	1.8
FDHCS120	3/16/2015	1.7
	9/9/2015	1.8
HCS130	3/16/2015	1.8
	9/9/2015	1.8
HCS140	3/16/2015	1.7
	9/9/2015	1.7
HCS160	3/16/2015	1.7
	9/9/2015	1.8

mg/L – milligrams per liter

7.1.1.9 Surface Water / Base Flow – Caffeine

Surface water base flows were analyzed for caffeine, which can indicate an anthropogenic source. Caffeine may enter surface water from leaking sewer or septic systems or it may be present in the aquifer from similar sources in the recharge zone (EPA, 2012). Potential ecological effects are currently unknown but could include reduced reproductive success in aquatic species (EPA, 2012). Caffeine detections in surface water samples from Comal Springs in 2015 ranged from 16 to 41 nanograms per liter (ng/L). Caffeine was only detected in surface water samples from two locations in the Comal Springs system in 2015, HCS110 in March and September and the field duplicate collected at HCS120 in September. There is no regulatory standard or expected value for comparison. Results are shown in Table 5.

Table 5. Surface Water Samples – Caffeine Detections - Comal Springs Complex

Location	Date Collected	Caffeine (ng/L)
HCS110	3/16/2015	39
	9/9/2015	41
HCS120	3/16/2015	<3.5
	9/9/2015	<4
FDHCS120	3/16/2015	<3.5
	9/9/2015	16
HCS130	3/16/2015	<3.5
	9/9/2015	<4
HCS140	3/16/2015	<3.5
	9/9/2015	<4
HCS160	3/16/2015	<3.5
	9/9/2015	<4

ng/L – nanograms per liter

7.1.2 Comal Springs Sediment Sampling

7.1.2.1 Sediment - Volatile Organic Compounds (VOCs)

No VOCs were detected in any of the sediment samples collected at Comal Springs during 2015.

7.1.2.2 Sediment - Semi-volatile Organic Compounds (SVOCs)

Only one SVOC compound was detected in the sediment samples collected in the Comal Springs system in 2015. The compound, bis(2-ethylhexyl) phthalate, was detected at HCS320 at a concentration of 0.94mg/kg. There is no PEC or TEC established for this compound.

7.1.2.3 Sediment - Pesticides

Sediment samples were analyzed for both organochlorine and organophosphorous pesticides. No pesticides were detected in any of the sediment samples collected in the Comal Springs complex.

7.1.2.4 Sediment - Herbicides

Sediments were analyzed for herbicide compounds to further assess sediment quality at the Comal Springs complex. No herbicides were detected in any of the sediment samples collected from the Comal Springs complex.

7.1.2.5 Sediment - Polychlorinated Biphenyls

Sediments were analyzed for PCB compounds to further assess sediment quality at the Comal Springs complex. No PCB compounds were detected in any of the sediment samples collected from the Comal Springs complex.

7.1.2.6 Sediment - Metals

Many metals are naturally occurring within soil, rock, and sediment. Sediment sample results for the Comal Springs complex tested positive for several metals, generally at low concentrations. Metals detected above the method detection limit and subsequently evaluated in this report for potential toxic effects using the TEC and/or PEC standards are: arsenic, chromium, copper, iron, lead, manganese, nickel, and zinc. Other metals detected that do not have a TEC or PEC value available are aluminum and barium. These metals (aluminum and barium) were compared to Texas-specific background concentrations (TSBC) (TCEQ, 2014b) for soil. None of these exceeded the listed background concentration.

Zinc exceeded the TEC at HCS360 and in the field duplicate, FDHCS360. Metal detections are listed in Table 6 below. Zinc detections above the established TEC value are displayed graphically in Figure 12. No metals were detected above a PEC.

Figure 12. Zinc in Comal Springs Complex Sediments Compared to the Threshold Effect Concentration (TEC) and Probable Effect Concentration (PEC) Values

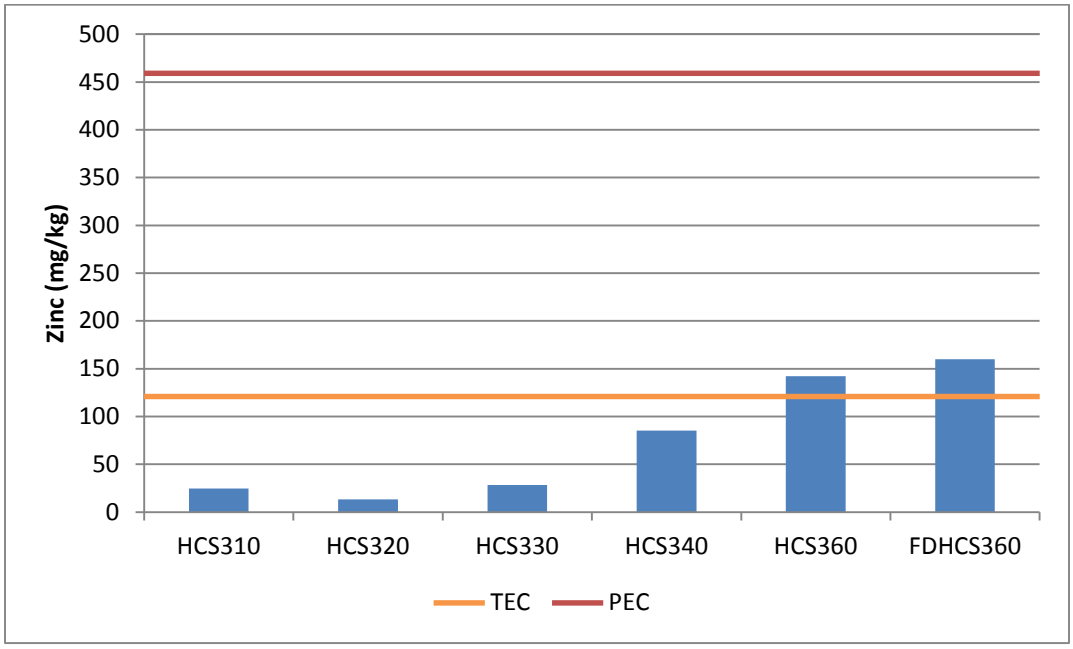


Table 6. Sediment Samples – Metal Detections - Comal Springs Complex

Location	Date Collected	Arsenic (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)	Aluminum (mg/kg)	Iron (mg/kg)	Manganese (mg/kg)
HCS310	6/4/2015	<0.482	16	3.38	3.65	5.53	14.5	24.6	1390	1710	31.6
HCS320	6/4/2015	<0.549	23.5	6.41	3.55	6.33	19.1	13.1	1580	2620	47.8
HCS330	6/4/2015	4.92	61	15.3	9.74	10.7	20.5	28.2	10300	10300	195
HCS340	6/4/2015	3.14	67.9	11.7	12.9	13.5	21.1	85.1	4880	9730	108
HCS360	6/4/2015	3.83	68.9	16.1	14.3	23.9	17	142	10800	9750	216
FDHCS360	6/4/2015	4.15	72.9	18	16	26.2	18.4	160	11900	10700	227
TEC		9.79	NE	43.4	31.6	35.8	22.7	121	NE	20000	460
PEC		33	NE	111	149	128	48.6	459	NE	40000	1100
Soil background level		5.9	300	30	15	15	10	30	30000	15000	300

mg/kg – milligrams per kilograms

PEC – probable effect concentration

TEC – threshold effect concentration

7.1.3 Comal Springs Stormwater Sampling

Stormwater samples were collected during two storm events at the Comal Springs complex. The events were sampled according to the guidelines in the EAHCP workplan. The events occurred on January 22–23, 2015, and October 23, 2015. Total rainfall for the January 2015 event was approximately 2.00 to 2.49 inches (National Oceanic and Atmospheric Administration [NOAA], 2015) causing streamflow measured at USGS Gauge 08169000 to increase from approximately 141 cfs to a peak of 420 cfs (USGS, 2015). Total rainfall for the October 2015 event was approximately 2.00 to 2.49 inches in the 24-hour period beginning at 7:00 AM on October 23, 2015 (NOAA, 2015). Sampling efforts occurred during the first pulse of the storm when precipitation is estimated to have been approximately 1 inch. During sampling efforts, streamflow measurements from the USGS gauge increased from approximately 213 cfs to a peak of 314 cfs (USGS, 2015).

7.1.3.1 Stormwater - Bacteria Detections

Stormwater samples collected and analyzed for bacteria analyses generally tested positive for high levels of bacteria. Bacterial analyses were performed for *E. coli*, using a most probable number method. The 2014 Texas Surface Water Quality Standard for *E. coli* in primary recreation waters is a geometric mean of 126 MPN/100 mL with no individual sample exceeding 399 MPN/100 mL (30 TAC 307.7). The geometric mean for stormwater samples collected from the Comal Springs complex during January 2015 was 1342.5 MPN/100 mL. Bacteria counts from January 2015 ranged from 110 MPN/100 mL to 10,000 MPN/100 mL with several samples exceeding the individual sample limit. The geometric mean for stormwater samples collected from the Comal Springs complex during October 2015 was 17,905.4 MPN/100 mL. Bacteria counts from October 2015 ranged from 2000 MPN/100 mL to 77,000 MPN/100 mL with all samples exceeding the individual sample limit. Individual detections are listed below in Table 7 and shown in relation to stream discharge and specific conductivity in Figures 13 and 14. During October 2015, HCS210 Peak was not analyzed due to insufficient sample volume after failure of the container seal during transit to the laboratory. Due to the timing of storm events and laboratory working hours, it was not possible to deliver all samples to the laboratory within sample holding time of 8 hours, as discussed in Appendix C. These samples were included in the range and geometric mean calculations.

Table 7. Stormwater Samples – Bacteria Counts - Comal Springs Complex

Location	Date	Count (MPN/100 mL)
HCS210 Lead	1/22/2015	2200 H
	10/23/2015	77000
HCS210 Peak	1/22/2015	1600 H
	10/23/2015	NA
HCS210 Trail	1/23/2015	880 H
	10/23/2015	69000 H
HCS240 Lead	1/22/2015	910 H
	10/23/2015	20000
HCS240 Peak	1/22/2015	550 H
	10/23/2015	2000 H
HCS240 Trail	1/23/2015	110 H
	10/23/2015	2900 H
HCS250 Lead	1/22/2015	630 H
	10/23/2015	25000
HCS250 Peak	1/22/2015	1800 H
	10/23/2015	17000 H
HCS250 Trail	1/23/2015	340 H
	10/23/2015	16000 H
HCS260 Lead	1/22/2015	370 H
	10/23/2015	17000
HCS260 Peak	1/22/2015	10000 H
	10/23/2015	20000 H
HCS260 Trail	1/23/2015	2300 H
	10/23/2015	20000 H
FDHCS260 Trail	1/23/2015	3400 H
	10/23/2015	24000 H
HCS270 Lead	1/22/2015	1300 H
	10/23/2015	24000
HCS270 Peak	1/22/2015	5500 H
	10/23/2015	20000 H
HCS270 Trail	1/23/2015	4400 H
	10/23/2015	20000 H
FDHCS270 Trail	1/23/2015	2500 H
	10/23/2015	17000 H

H – Analyzed outside hold time, result included for comparison but not considered valid

MPN/100 mL – Most probable number per 100 milliliters of water

NA – Not analyzed

Figure 13. Stormwater Samples – January 2015 Bacteria Counts in Relation to Stream Discharge and Specific Conductivity - Comal Springs Complex

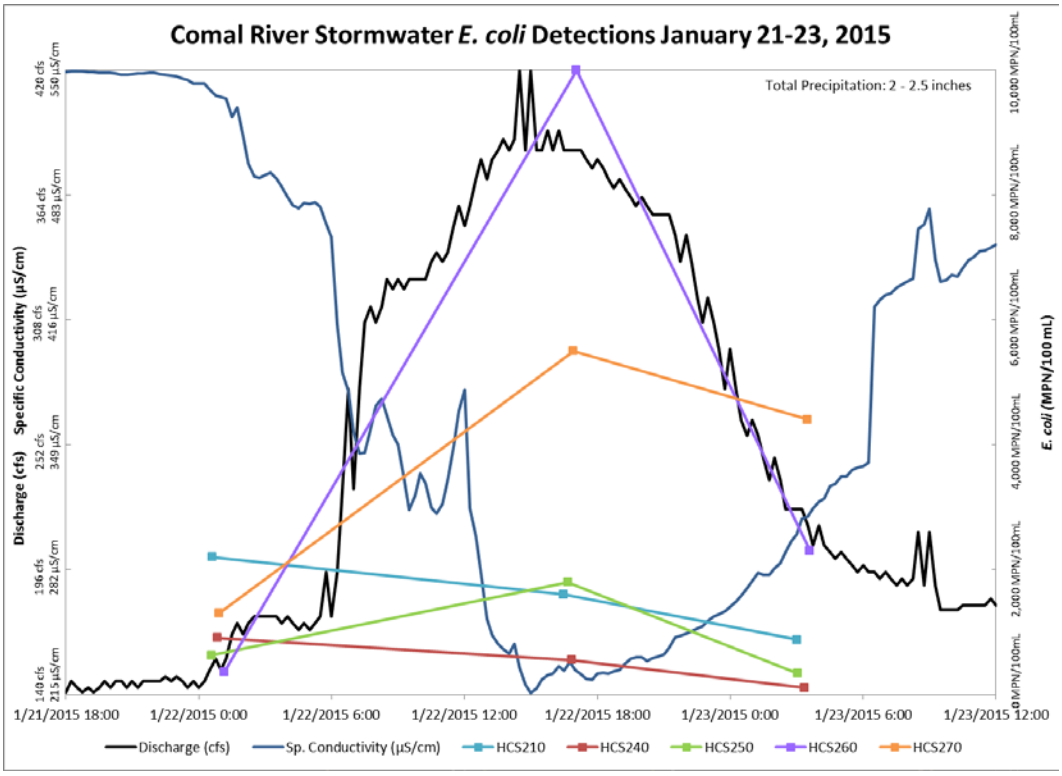
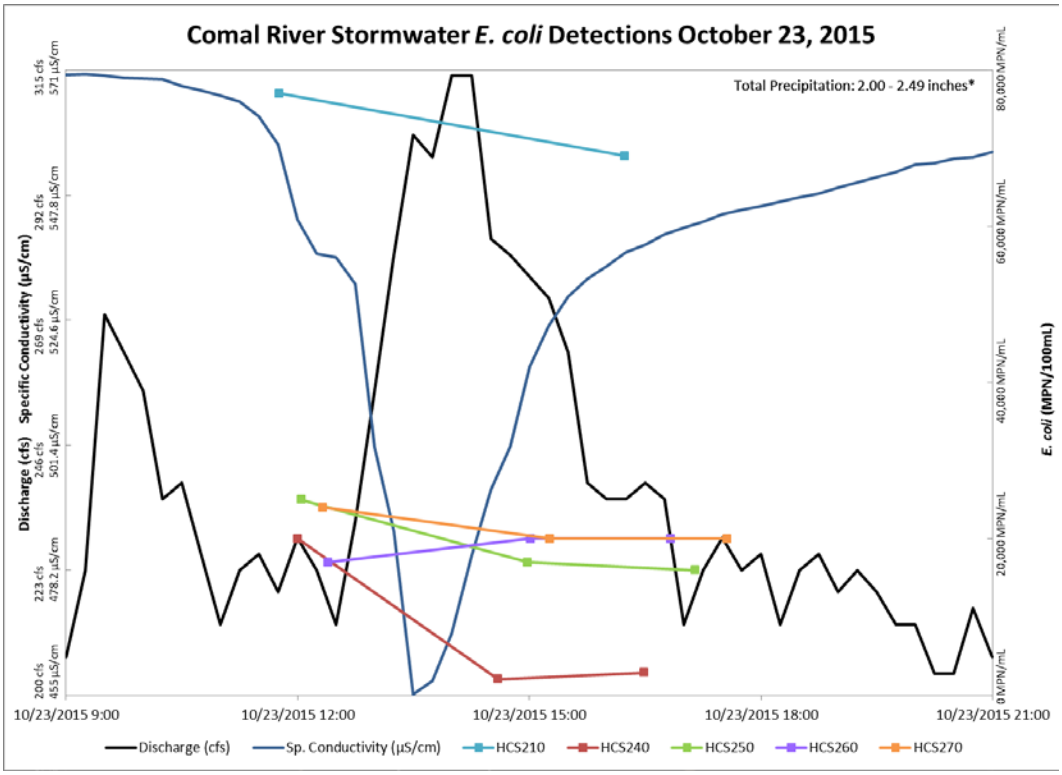


Figure 14. Stormwater Samples – October 2015 Bacteria Counts in Relation to Stream Discharge and Specific Conductivity - Comal Springs Complex



7.1.3.2 Stormwater - Volatile Organic Compounds (VOCs)

VOCs were detected in two samples, HCS210 Lead and HCS240 Lead, in the Comal Springs storm system during the January 2015 event. Acetone and 2-butanone were detected at HCS210 and carbon disulfide was detected at HCS240. All three detections were below the laboratory reporting limit and the established PCLs. Acetone was also detected in sample HCS210 Peak during the October storm event. This detection was also below the laboratory reporting limit and the established PCL. Detections are shown in Table 8.

Table 8. Stormwater Samples – Volatile Organic Compound Detections - Comal Springs Complex

Location	Date Collected	Acetone (µg/L)	2-Butanone (µg/L)	Carbon disulfide (µg/L)
HCS210 Lead	1/22/2015	11 J	3.7 J	<0.41
HCS210 Peak	10/23/2015	12 J	<2.2	<0.41
HCS240 Lead	1/22/2015	<10	<2.2	0.41 J
MCL		NE	NE	NE
PCL		22000	15000	2400

J – Detection is above the method detection limit, but below the reporting limit

µg/L – milligrams per Liter

MCL – maximum contaminant level

NE – Not established

PCL – protective concentration levels

7.1.3.3 Stormwater - Semi-volatile Organic Compounds (SVOCs)

Stormwater samples collected during January 2015 were analyzed for SVOCs and were generally non-detect for these compounds, with the exception of one sample, HCS270 Peak, which tested positive for butyl benzyl phthalate at a concentration of 3.4 µg. This detection is below the laboratory reporting limit and the established drinking water PCL. No SVOCs were detected during the October 2015 event.

7.1.3.4 Stormwater - Herbicides and Pesticides

No herbicides or organophosphorous pesticides were detected for the storm event in the Comal Springs complex sampled during January or October 2015.

7.1.3.5 Stormwater - Polychlorinated Biphenyls (PCBs)

Stormwater samples were analyzed for the various Aroclor compounds that are generally referred to collectively as PCBs. None of the stormwater samples from the Comal Springs complex indicated positive detections of PCB compounds during the January or October 2015 sampling events.

7.1.3.6 Stormwater - Metals

Stormwater samples were analyzed for metals in accordance with the EAHCP workplan. Several positive metal detections were noted in the sample set; however, no samples contained a metal at a concentration in excess of the drinking water MCL and most detections were below laboratory reporting limits.

7.1.3.7 Stormwater - Nitrates

Stormwater samples were analyzed for nitrate-nitrite as nitrogen in accordance with the EAHCP workplan. All nitrate results were below the MCL of 10 mg/L. For the January 2015 event, the range of nitrate results was 0.21 mg/L to 1.8 mg/L, with an average of 1.2 mg/L. During the October 2015 event, nitrate concentrations ranged from 0.44 mg/L to 1.8 mg/L, with an average of 1.4 mg/L. For comparison the average nitrate in spring water samples at Comal Springs for calendar year 2014 was 1.91 mg/L (EAA, 2015). Nitrate results are summarized in Table 9.

Table 9. Stormwater Samples – Nitrate Detections - Comal Springs Complex

Location	Date	Concentration (mg/L)
HCS210 Lead	1/22/2015	0.55
	10/23/2015	0.44
HCS210 Peak	1/22/2015	0.26
	10/23/2015	0.61
HCS210 Trail	1/23/2015	0.21
	10/23/2015	0.68 H
HCS240 Lead	1/22/2015	1.7
	10/23/2015	1.2
HCS240 Peak	1/22/2015	1.7
	10/23/2015	1.7
HCS240 Trail	1/23/2015	1.8
	10/23/2015	1.8 H
HCS250 Lead	1/22/2015	1.6
	10/23/2015	1.3
HCS250 Peak	1/22/2015	1.5
	10/23/2015	1.6
HCS250 Trail	1/23/2015	1.7
	10/23/2015	1.6 H
HCS260 Lead	1/22/2015	1.7
	10/23/2015	1.7
HCS260 Peak	1/22/2015	0.94
	10/23/2015	1.6 H
HCS260 Trail	1/23/2015	1.2
	10/23/2015	1.7 H
FDHCS260 Trail	1/23/2015	1.2
	10/23/2015	1.7 H

Table 9. Stormwater Samples – Nitrate Detections - Comal Springs Complex

Location	Date	Concentration (mg/L)
HCS270 Lead	1/22/2015	1.6
	10/23/2015	1.4
HCS270 Peak	1/22/2015	0.98
	10/23/2015	1.6 H
HCS270 Trail	1/23/2015	1.2
	10/23/2015	1.6 H
FDHCS270 Trail	1/23/2015	1.2
	10/23/2015	1.6 H

H – Analyzed outside hold time, result included for comparison but not considered valid

mg/L – milligrams per liter

7.1.3.8 Stormwater – Caffeine

Stormwater was analyzed for caffeine, which can indicate an anthropogenic source. Caffeine may enter surface water from leaking sewer or septic systems or it may be present in the aquifer from similar sources in the recharge zone (EPA, 2012). Potential ecological effects are currently unknown but could include reduced reproductive success of aquatic organisms (EPA, 2012). Caffeine detections in stormwater samples from Comal Springs in January 2015 ranged from 11 ng/L to 480 ng/L. In October 2015, caffeine detections ranged from 11 ng/L to 850 ng/L. There is no regulatory standard or expected value for comparison. These results are shown in Table 10.

Table 10. Stormwater Samples – Caffeine Detections - Comal Springs Complex

Location	Date Collected	Caffeine (ng/L)
HCS210 Lead	1/22/2015	480
	10/23/2015	430
HCS210 Peak	1/22/2015	95
	10/23/2015	180
HCS210 Trail	1/23/2015	140
	10/23/2015	150
HCS240 Lead	1/22/2015	47
	10/23/2015	120
HCS240 Peak	1/22/2015	<3.6
	10/23/2015	26
HCS240 Trail	1/23/2015	18
	10/23/2015	11

Table 10. Stormwater Samples – Caffeine Detections - Comal Springs Complex

Location	Date Collected	Caffeine (ng/L)
HCS250 Lead	1/22/2015	55
	10/23/2015	850
HCS250 Peak	1/22/2015	38
	10/23/2015	120
HCS250 Trail	1/23/2015	11
	10/23/2015	81
HCS260 Lead	1/22/2015	57
	10/23/2015	160
HCS260 Peak	1/22/2015	130
	10/23/2015	120
HCS260 Trail	1/23/2015	110
	10/23/2015	80
FDHCS260 Trail	1/23/2015	67
	10/23/2015	56
HCS270 Lead	1/22/2015	95
	10/23/2015	220
HCS270 Peak	1/22/2015	130
	10/23/2015	210
HCS270 Trail	1/23/2015	100
	10/23/2015	450
FDHCS270 Trail	1/23/2015	65
	10/23/2015	130

ng/L – nanograms per liter

7.1.4 Comal Springs Surface Water Passive Sampling

PDSs were installed in the Comal Springs system in February, April, June, August, October and December 2015. The PDS was not recovered from site HCS460 in April or December 2015. Any changes to deployment locations or non-recovered samplers are discussed in Appendix C. There is not a suitable set of regulatory standards to compare PDS results to, but rather the data are a qualitative tool for evaluating the presence of trace concentrations of organic compounds. PDSs were analyzed for a suite of SVOCs, VOCs, and organochlorine pesticides. Few compounds were detected, the most notable are relatively consistent detections of tetrachlorethene and TPH in several samples. Positive detections are shown in Table 11.

Table 11. Passive Diffusion – Volatile Organic Compounds (VOCs) - Comal Springs Complex

Location	Month 2015	BTEX (µg)	Chloroform (µg)	Tetrachloroethene (µg)	p/m-Xylene (µg)	o-Xylene (µg)	Toluene (µg)	TPH (µg)	Undecane (µg)
HCS410	February	<0.02	<0.02	0.05	<0.02	<0.02	<0.02	0.76	<0.05
	April	<0.02	<0.02	0.02	<0.02	<0.02	<0.02	1.82	<0.05
	June	<0.02	0.03	0.14	<0.02	<0.02	<0.02	0.66	<0.05
	August	<0.02	<0.02	0.09	<0.02	<0.02	<0.02	<0.50	<0.05
	October	<0.02	0.02	0.07	<0.02	<0.02	<0.02	<0.50	<0.05
	December	<0.02	0.03	0.11	<0.02	<0.02	<0.02	<0.50	<0.05
HCS420	February	<0.02	<0.02	0.28	<0.02	<0.02	<0.02	0.52	<0.05
	April	<0.02	<0.02	0.34	<0.02	<0.02	<0.02	1.02	0.16
	June	<0.02	<0.02	0.20	<0.02	<0.02	<0.02	<0.50	<0.05
	August	<0.02	<0.02	0.13	<0.02	<0.02	<0.02	<0.50	<0.05
	October	<0.02	<0.02	0.21	<0.02	<0.02	<0.02	<0.50	<0.05
	December	0.11	<0.02	0.38	<0.02	<0.02	0.11	<0.50	<0.05
HCS430	February	<0.02	<0.02	0.29	<0.02	<0.02	<0.02	1.42	<0.05
	April	<0.02	<0.02	0.42	<0.02	<0.02	<0.02	1.26	<0.05
	June	<0.02	<0.02	0.60	<0.02	<0.02	<0.02	0.54	<0.05
	August	<0.02	<0.02	0.36	<0.02	<0.02	<0.02	<0.50	<0.05
	October	<0.02	<0.02	0.55	<0.02	<0.02	<0.02	<0.50	<0.05
	December	<0.02	<0.02	0.58	<0.02	<0.02	<0.02	<0.50	<0.05

Table 11. Passive Diffusion – Volatile Organic Compounds (VOCs) - Comal Springs Complex

Location	Month 2015	BTEX (µg)	Chloroform (µg)	Tetrachloroethene (µg)	p/m-Xylene (µg)	o-Xylene (µg)	Toluene (µg)	TPH (µg)	Undecane (µg)
HCS440	February	<0.02	<0.02	0.28	<0.02	<0.02	<0.02	0.61	<0.05
	April	<0.02	<0.02	0.41	<0.02	<0.02	<0.02	0.65	<0.05
	June	<0.02	<0.02	0.40	<0.02	<0.02	<0.02	0.72	<0.05
	August	<0.02	<0.02	0.39	<0.02	<0.02	<0.02	1.23	<0.05
	October	<0.02	<0.02	0.47	<0.02	<0.02	<0.02	<0.50	<0.05
	December	<0.02	<0.02	0.38	<0.02	<0.02	<0.02	<0.50	<0.05
FDHCS440	February	<0.02	<0.02	0.28	<0.02	<0.02	<0.02	0.76	<0.05
	April	<0.02	<0.02	0.37	<0.02	<0.02	<0.02	1.05	<0.05
	June	<0.02	<0.02	0.42	<0.02	<0.02	<0.02	<0.50	<0.05
	August	<0.02	<0.02	0.44	<0.02	<0.02	<0.02	1.44	<0.05
	October	<0.02	<0.02	0.46	<0.02	<0.02	<0.02	<0.50	<0.05
	December	<0.02	<0.02	0.39	<0.02	<0.02	<0.02	<0.50	<0.05
HCS460	February	<0.02	<0.02	0.18	<0.02	<0.02	<0.02	<0.50	<0.05
	April	NA	NA	NA	NA	NA	NA	NA	NA
	June	0.03	<0.02	0.26	0.03	<0.02	<0.02	1.90	<0.05
	August	0.11	<0.02	0.31	0.08	0.04	<0.02	2.59	<0.05
	October	<0.02	<0.02	0.30	<0.02	<0.02	<0.02	<0.50	<0.05
	December	NA	NA	NA	NA	NA	NA	NA	NA

BTEX – benzene, toluene, ethylbenzene, and xylenes

NA – Not analyzed

µg – micrograms

TPH – total petroleum hydrocarbons

7.2 San Marcos Springs Sample Results

The surface waters associated with the San Marcos Springs complex were sampled for surface water base flow conditions in March and September 2015. In general, few detections were noted. As discussed previously, surface water samples are compared to the drinking water standards for water quality in this report.

Sediments at the San Marcos Springs complex were sampled in June 2015. Sediment results were compared to the standards developed by McDonald et al. (2000) and TCEQ (2014a). These standards are based on the probability of a detected compound having a toxic effect on sediment dwelling organisms and are referred to as the TEC and PEC. Detections below the TEC are not considered to be toxic, while detections above the PEC are considered to be toxic to sediment-dwelling organisms. Detections above the TEC but less than the PEC are considered to be equally likely to be toxic or non-toxic.

Stormwater events were sampled at the San Marcos Springs complex in May and October 2015. Stormwater results did not indicate a significant number of detections of concern.

PDS sampling events were conducted at the San Marcos Springs complex in February, April, June, August, October, and December 2015. Generally speaking, various VOCs and TPH were detected at various sample locations, but only tetrachlorethene and TPH were relatively consistently detected.

7.2.1 San Marcos Springs Surface Water / Base Flow Sampling

The San Marcos Springs complex was sampled on March 25 and September 17, 2015, for surface water (base flow) events.

7.2.1.1 Surface Water / Base flow - Bacteria

Bacteria results for surface water (base flow) associated with the San Marcos Springs complex ranged from 9 MPN/100 mL through 200 MPN/100 mL for *E. coli*. Because of the presence of various fauna in surface water collection sites, positive detections are common. The 2014 Texas Surface Water Quality Standard for *E. coli* in primary recreation waters is a geometric mean of 126 MPN/100 mL with no individual sample exceeding 399 MPN/100 mL (30 TAC 307.7). The geometric mean for surface water samples collected from the San Marcos Springs complex during 2015 was 31.7 MPN/100 mL. No surface water samples collected from the San Marcos Springs in 2015 exceeded the individual sample limit of 399 MPN/100 mL. Surface water (base flow) bacteria counts are summarized in Table 12.

Table 12. Surface Water Samples – Bacteria Counts - San Marcos Springs Complex

Location	Date	Count (MPN/100 mL)
HSM110	3/25/2015	<1
	9/17/2015	45
FDHSM110	3/25/2015	9
	9/17/2015	75
HSM120	3/25/2015	13
	9/17/2015	20
HSM130	3/25/2015	12
	9/17/2015	30
HSM140	3/25/2015	200
	9/17/2015	37
HSM150	3/25/2015	66
	9/17/2015	22
HSM160	3/25/2015	40
	9/17/2015	28
HSM170	3/25/2015	34
	9/17/2015	28

MPN/100 mL – most probable number per 100 milliliters

7.2.1.2 Surface Water / Base Flow - Volatile Organic Compounds (VOCs)

No VOCs were detected in the San Marcos Springs surface water samples in March or September 2015.

7.2.1.3 Surface Water / Base Flow - Semi-volatile Organic Compounds (SVOCs)

Surface water samples were analyzed for SVOCs because their detection can indicate the presence of chemicals originating from anthropogenic sources and therefore be used to evaluate potential impacts on water quality. No SVOCs were detected in any of the surface water samples from the San Marcos Springs complex during March and September 2015.

7.2.1.4 Surface Water / Base Flow - Pesticides

Surface water samples were analyzed for pesticides because their detection can indicate the presence of chemicals originating from anthropogenic sources and therefore be used to evaluate potential impacts on water quality. No pesticides were detected in any of the San Marcos Springs complex surface water samples during March and September 2015.

7.2.1.5 Surface Water / Base flow - Herbicides

Surface water samples were analyzed for herbicides because their detection can indicate the presence of chemicals originating from anthropogenic sources and therefore be used to evaluate potential impacts on

water quality. Herbicides were not detected for the March or September 2015 sampling events at all seven sites for the San Marcos Springs complex.

7.2.1.6 Surface Water / Base Flow - Polychlorinated Biphenyls (PCBs)

Surface water samples were analyzed for the various Aroclor compounds that are generally referred to collectively as PCBs. PCBs are sampled because their detection can indicate the presence of chemicals originating from anthropogenic sources and therefore help in the evaluation of potential impacts on water quality. PCBs were not detected for the March or September 2015 sampling events at all seven sites for the San Marcos Springs complex.

7.2.1.7 Surface Water / Base Flow - Metals

Surface water samples were analyzed for metals because their detection can indicate the presence of chemicals originating from anthropogenic sources and therefore be used to evaluate potential impacts on water quality. Although metals were detected for both the March and September 2015 sampling events at all seven sites for the San Marcos Springs complex, no metals of concern were detected at concentrations in excess of the drinking water standards. Barium, copper, iron, manganese, nickel, selenium, and zinc were detected; however, none of their concentrations exceeded a regulatory standard. These detections are listed in Table 13. Note many detections are "J" flagged, indicating the detected concentration is below the laboratory reporting limit, but above the method detection limit.

Table 13. Surface Water Samples – Metal Detections - San Marcos Springs Complex

Location	Date Collected	Barium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Zinc (mg/L)	Iron (mg/L)	Manganese (mg/L)
HSM110	3/25/2015	0.0409	0.000788 J	0.00193	0.00031 J	0.00287 J	0.0411 J	0.0222
	9/17/2015	0.0407	0.00175 J	0.00176 J	<0.000841	<0.00239	<0.0463	0.283
FDHSM110	3/25/2015	0.0429	0.000673 J	0.00203	<0.000168	<0.000479	0.0485 J	0.022
	9/17/2015	0.0394	0.00216 J	0.00168 J	<0.000841	<0.00239	<0.0463	0.282
HSM120	3/25/2015	0.0382	0.000682 J	0.00185	0.000351 J	<0.000479	0.0344 J	0.00022 J
	9/17/2015	0.0377	0.00629	0.0018 J	<0.000841	<0.00239	<0.0463	0.0017 J
HSM130	3/25/2015	0.0418	0.000662 J	0.00194	0.000422 J	0.00447 J	0.0295 J	0.00148
	9/17/2015	0.0414	0.00204 J	0.00162 J	<0.000841	<0.00239	<0.0463	0.00154 J
HSM140	3/25/2015	0.0392	0.000951 J	0.00208	0.000314 J	0.000711 J	0.0338 J	0.000545 J
	9/17/2015	0.0371	0.00218 J	0.0016 J	<0.000841	<0.00239	<0.0463	0.00148 J
HSM150	3/25/2015	0.0388	0.000728 J	0.00189	0.000282 J	0.00135 J	0.0288 J	0.000616 J
	9/17/2015	0.0369	0.00165 J	0.00157 J	<0.000841	<0.00239	<0.0463	0.00182 J
HSM160	3/25/2015	0.0379	0.000978 J	0.00207	0.000314 J	0.0052	0.0342 J	0.00128
	9/17/2015	0.0372	0.00691	0.00164 J	<0.000841	0.0559	<0.0463	0.0032 J
HSM170	3/25/2015	0.0398	0.000824 J	0.0018	0.000334 J	<0.000479	0.0348 J	0.00167
	9/17/2015	0.0368	0.00856	0.00171 J	<0.000841	<0.00239	<0.0463	0.00325 J
MCL		2	NE	NE	0.05	NE	NE	NE
PCL		--	1.3	0.49	--	7.3	NE	3.4

-- – Not applicable

J – Detection is above the method detection limit, but below the reporting limit.

mg/L – milligrams per liter

MCL – maximum contaminant level

NE – None Established

PCL – protective concentration levels

7.2.1.8 Surface Water / Base Flow - Nitrates

Surface water samples were analyzed for nitrate-nitrite as nitrogen. Laboratory analyses indicated a limited range of nitrate-nitrite as nitrogen in surface water samples. Of the 16 surface water samples (14 environmental samples and two field duplicates) collected for the two sample events, concentrations ranged from 0.36 mg/L to 2.0 mg/L. None of the nitrate concentrations exceeded the MCL of 10 mg/L for drinking water. The highest nitrate concentration in surface water at the San Marcos Springs complex was 2.0 mg/L from HSM130 sampled on March 25, 2015. Nitrate-nitrogen results are summarized in Table 14.

Table 14. Surface Water Samples – Nitrate Detections - San Marcos Springs Complex

Location	Date	Concentration (mg/L)
HSM110	3/25/2015	0.36
	9/17/2015	0.56
FDHSM110	3/25/2015	0.36
	9/17/2015	0.59
HSM120	3/25/2015	1.2
	9/17/2015	1.3
HSM130	3/25/2015	2
	9/17/2015	1.7
HSM140	3/25/2015	1.1
	9/17/2015	1.3
HSM150	3/25/2015	1.1
	9/17/2015	1.3
HSM160	3/25/2015	1.1
	9/17/2015	1.3
HSM170	3/25/2015	1.1
	9/17/2015	1.3

mg/L – milligrams per liter

7.2.1.9 Surface water / base flow – Caffeine

Surface water base flows were analyzed for caffeine, which can indicate the possible presence of human wastewater discharge. Caffeine may enter surface water from leaking sewer or septic systems or it may be present in the aquifer from similar sources in the recharge zone (EPA, 2012). Potential ecological effects are currently unknown but could include reduced reproductive success in aquatic species (EPA, 2012). Caffeine detections in surface water samples from San Marcos Springs in 2015 ranged from 2.3 ng/L to 19 ng/L. There is no regulatory standard or expected value for comparison. Results are shown in Table 15.

Table 15. Surface Water Samples – Caffeine Detections - San Marcos Springs Complex

Location	Date Collected	Caffeine (ng/L)
HSM110	3/25/2015	16
	9/17/2015	19
FDHSM110	3/25/2015	10
	9/17/2015	13
HSM120	3/25/2015	<3.6
	9/17/2015	2.3
HSM150	3/25/2015	14
	9/17/2015	3.8
HSM160	3/25/2015	<3.6
	9/17/2015	5.1

ng/L – nanograms per liter

7.2.2 San Marcos Springs Sediment Sampling

7.2.2.1 Sediment - Volatile Organic Compounds (VOCs)

VOCs were detected in sediment samples collected at three of the seven sample sites in the San Marcos Springs complex in 2015. All detections were below the laboratory reporting limits, TEC, and PEC values. The detections are summarized below in Table 16.

Table 16. Sediment Samples – Volatile Organic Compound Detections - San Marcos Springs Complex

Location	Date Collected	Acetone (mg/kg)	Carbon disulfide (mg/kg)	p-Isopropyltoluene (mg/kg)	Toluene (mg/kg)
HSM310	6/5/2015	<0.022	0.0022J	<0.0023	<0.0018
HSM340	6/5/2015	0.011J	<0.00038	<0.00078	<0.00064
HSM370	6/5/2015	0.014J	<0.00053	<0.0011	<0.00089
FDHSM370	6/5/2015	<0.012	<0.00053	0.0014J	0.0022J
TEC		60.030	0.120	NE	2.880
PEC		360.180	0.780	NE	17.290

J – Detection is above the method detection limit, but below the reporting limit.
Mg/kg – milligrams per kilogram
NE – Not established
PEC – probable effect concentration
TEC – threshold effect concentration

7.2.2.2 Sediment - Semi-volatile Organic Compounds (SVOCs)

Generally, sediments would be expected to contain some SVOCs if the sediments have been exposed to these compounds. In summarizing the sediment SVOC detections, any compounds suspected as false positives are listed here in the text. Compounds of interest (primarily polycyclic aromatic hydrocarbons) are discussed in detail.

Non-Polycyclic Aromatic Hydrocarbon (PAH) Detections

Based on analysis of 2013 laboratory data, the EAA concluded that three compounds may have been laboratory artifacts. The compounds were bis(2-ethylhexyl) phthalate (DEHP), di-n-octyl phthalate, and di-n-butyl phthalate. The EAA noted in the *2013 Edwards Aquifer Habitat Conservation Plan Expanded Water Quality Report* (EAA, 2013) that as the data set grows, additional conclusions could be drawn. The 2014 laboratory analyses of sediment samples did not detect di-n-octyl phthalate or di-n-butyl phthalate. However, DEHP was detected in three of the sediment samples (HSM320, HSM330, and HSM350) in 2014 leading SWCA to conclude it is possible DEHP is present within the sediment and not just a laboratory artifact. DEHP was detected in three samples in 2015 as well, HSM330, HSM340 and HSM350. The 2015 detections were all below the laboratory reporting limit. The concentrations of DEHP in 2015 ranged from 0.12 J mg/kg to 0.74 J mg/kg. TEC and PEC values have not been established for DEHP. The detection of DEHP over the past two sampling events in samples only from the middle reaches of the San Marcos Spring system suggest DEHP is present within the sediment in that portion of the river.

One other non-PAH compound, 2-methylnaphthalene, was detected at a concentration of 0.15 J mg/kg at HSM370 in 2015. No TECs or PECs have been established for any of the non-PAH SVOCs detected.

PAH Detections

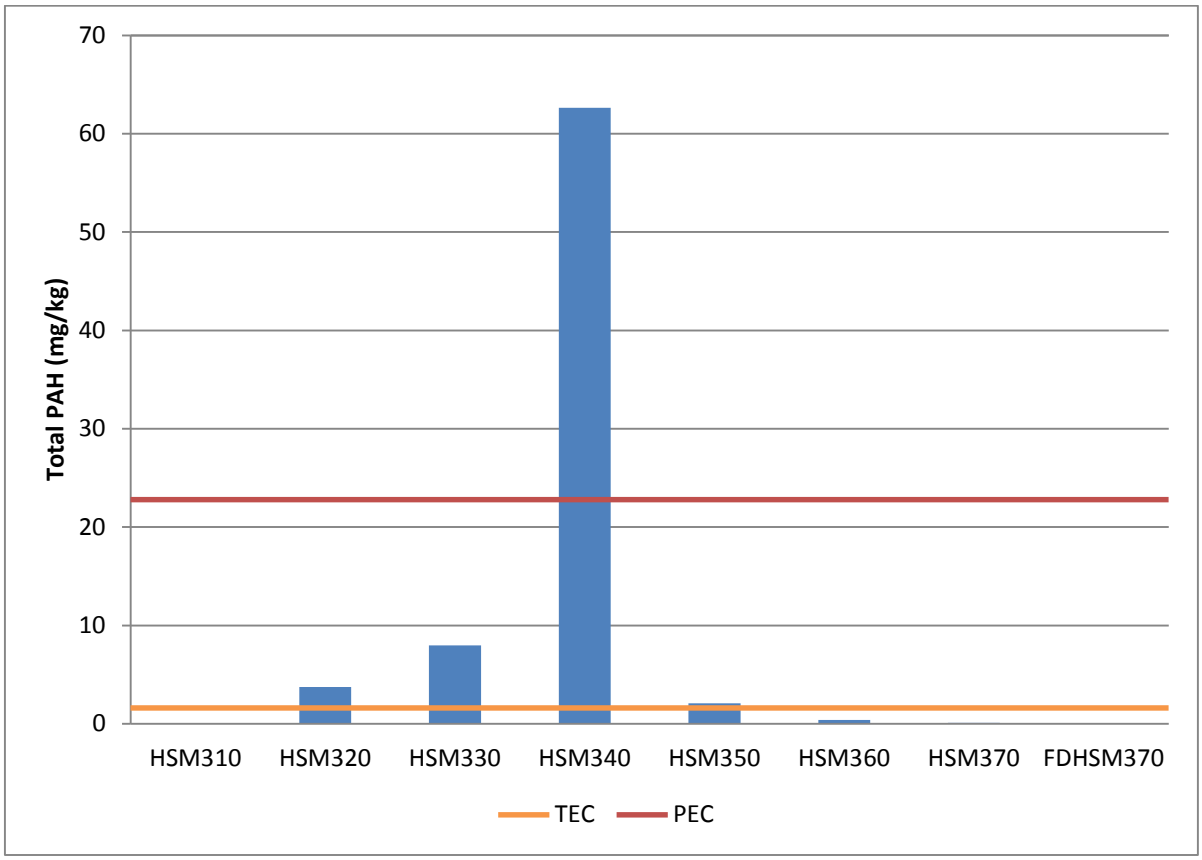
The remaining SVOC detections are all PAH compounds and are listed in Table 17. PAH detections are further shown in Figure 15, where the total PAH concentrations (sum of all detected concentrations for each sample point) are compared to the TEC and PEC values for total PAH concentration established by MacDonald et al. (2000) and TCEQ (2014a). Sample locations HSM320, HSM330, and HSM350 exceed the TEC for total PAH concentrations. HSM340 exceeded the PEC for total PAH concentrations.

Table 17. Sediment Samples – Semi-volatile Organic Compound Detections - San Marcos Springs Complex

Location	Date Collected	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (g,h,i) Perylene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenz (a,h) anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3-c,d) Pyrene (mg/kg)	Phenanthrene (mg/kg)	Pyrene (mg/kg)	Total PAH (mg/kg)	Bis(2-Ethylhexyl) Phthalate (mg/kg)	Di-n-octyl phthalate (mg/kg)	2-Methylnaphthalene (mg/kg)
HSM320	6/5/2015	<0.32	<0.32	0.51 J	0.4 J	<0.33	0.33 J	<0.33	0.59 J	<0.24	0.84 J	<0.32	0.3 J	<0.35	0.79 J	3.76	<0.27	<0.51	<0.31
HSM330	6/5/2015	<0.079	<0.079	0.65	0.57 J	0.72	0.49 J	0.61 J	0.88	0.15 J	1.5	<0.079	0.43 J	0.59 J	1.4	7.99	0.12 J	<0.13	<0.075
HSM340	6/5/2015	0.27 J	0.68 J	4.7	3.8	4.8	2.9	3.8	6.2	0.88 J	13	0.31 J	2.7	6.6	12	62.64	0.74 J	<0.25	<0.15
HSM350	6/5/2015	<0.14	<0.14	0.15 J	0.15 J	0.21 J	0.13 J	0.15 J	0.21 J	<0.1	0.3 J	<0.14	0.12 J	<0.15	0.66 J	2.08	0.24 J	<0.22	<0.13
HSM360	6/5/2015	<0.084	<0.084	<0.076	<0.072	0.09 J	<0.073	<0.086	0.087 J	<0.062	0.11 J	<0.084	<0.071	<0.091	0.11 J	0.397	<0.071	<0.13	<0.08
HSM370	6/5/2015	<0.11	<0.11	<0.097	<0.093	<0.11	<0.094	<0.11	<0.11	<0.079	0.11 J	<0.11	<0.091	<0.12	<0.13	0.11	<0.091	0.48 J	0.15 J
TEC		0.0067	0.0572	0.108	0.150	NE	NE	NE	0.166	0.033	0.423	0.0774	NE	0.204	0.195	1.61	NE	NE	NE
PEC		0.089	0.845	1.05	1.45	NE	NE	NE	1.290	0.140	2.23	0.536	NE	1.17	1.52	22.8	NE	NE	NE

J – Detection is above the method detection limit, but below the reporting limit.
Mg/kg – milligrams per kilogram
NE – Not established
PEC – probable effect concentration
TEC – threshold effect concentration

Figure 15. San Marcos Springs Sediment Polycyclic Aromatic Hydrocarbons Detections Compared to Threshold Effect Concentration (TEC) and Probable Effect Concentration (PEC) values



7.2.2.3 Sediment - Pesticides

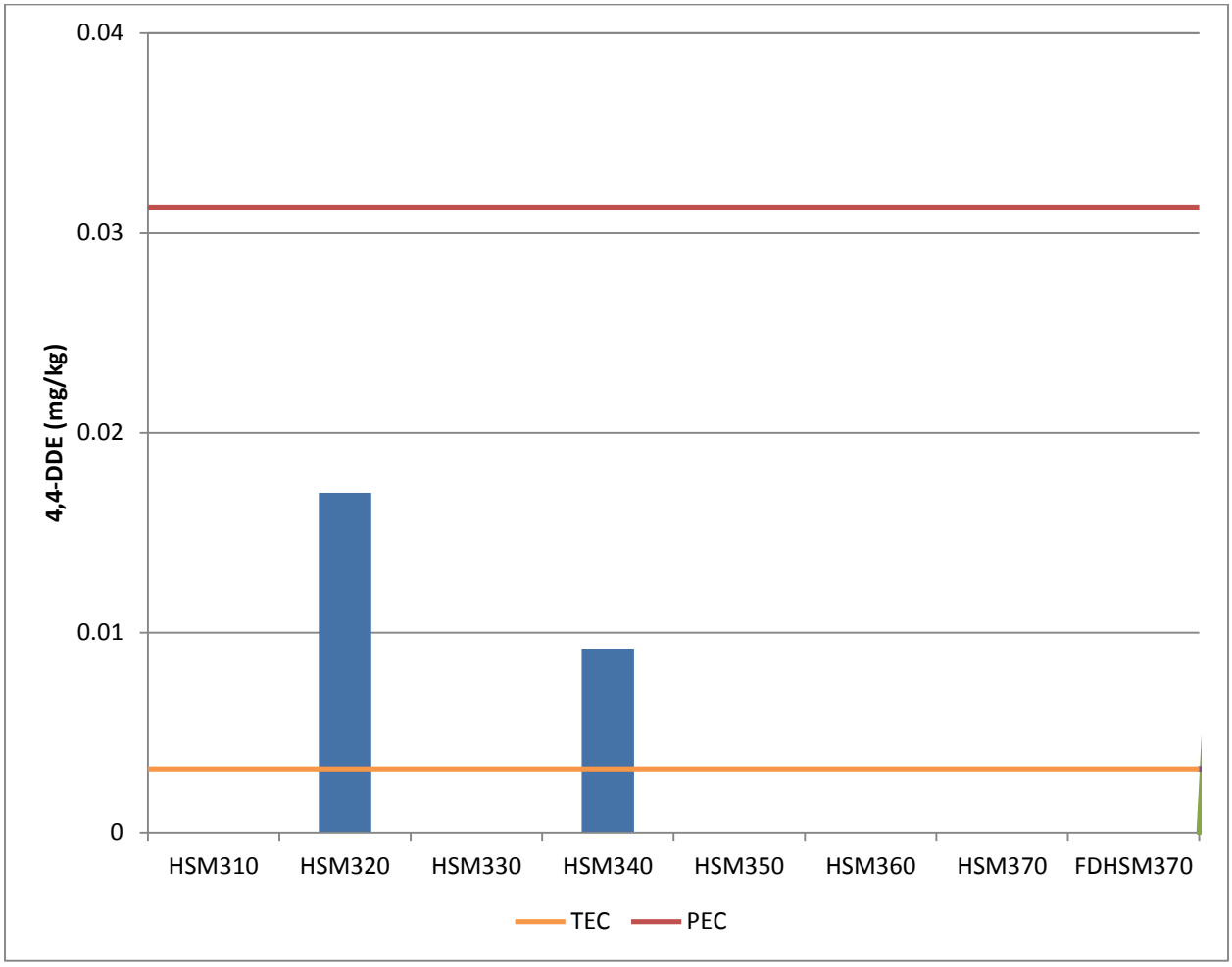
Sediment samples were analyzed for both organochlorine and organophosphorous pesticides. One pesticide, 4,4-DDE, was detected at HSM320 and HSM340. Both detections exceeded the established TEC value. The same compound was detected at HSM320 in 2013 and at HSM340 in 2014. Concentrations are listed in Table 18 and shown in Figure 16.

Table 18. Sediment Samples – Pesticide Detections - San Marcos Springs Complex

Location	Date Collected	4,4-DDE (µg/kg)
HSM320	6/5/2015	17J
HSM340	6/5/2015	9.2
TEC		3.16
PEC		31.3

µg/kg – micrograms per kilogram

Figure 16. San Marcos Springs Sediment 4,4-DDE Detections Compared to Threshold Effect Concentration (TEC) and Probable Effect Concentration (PEC) values



7.2.2.4 Sediment - Herbicides

Sediments were analyzed for herbicide compounds to further assess sediment quality at the San Marcos Springs complex. No herbicides were detected in any of the sediment samples from the seven sites in the San Marcos Springs complex.

7.2.2.5 Sediment - Polychlorinated Biphenyls

Sediments were analyzed for PCB compounds to further assess sediment quality at the San Marcos Springs complex. Two PCB compounds were detected in the sediment sample collected from HSM340. Aroclor-1260 was detected above the established TEC value, and the total PCBs detected were above the TEC for total PCB concentrations. The detections are listed in Table 19 and shown in comparison to the TEC and PEC values for total PCB concentrations in Figure 17.

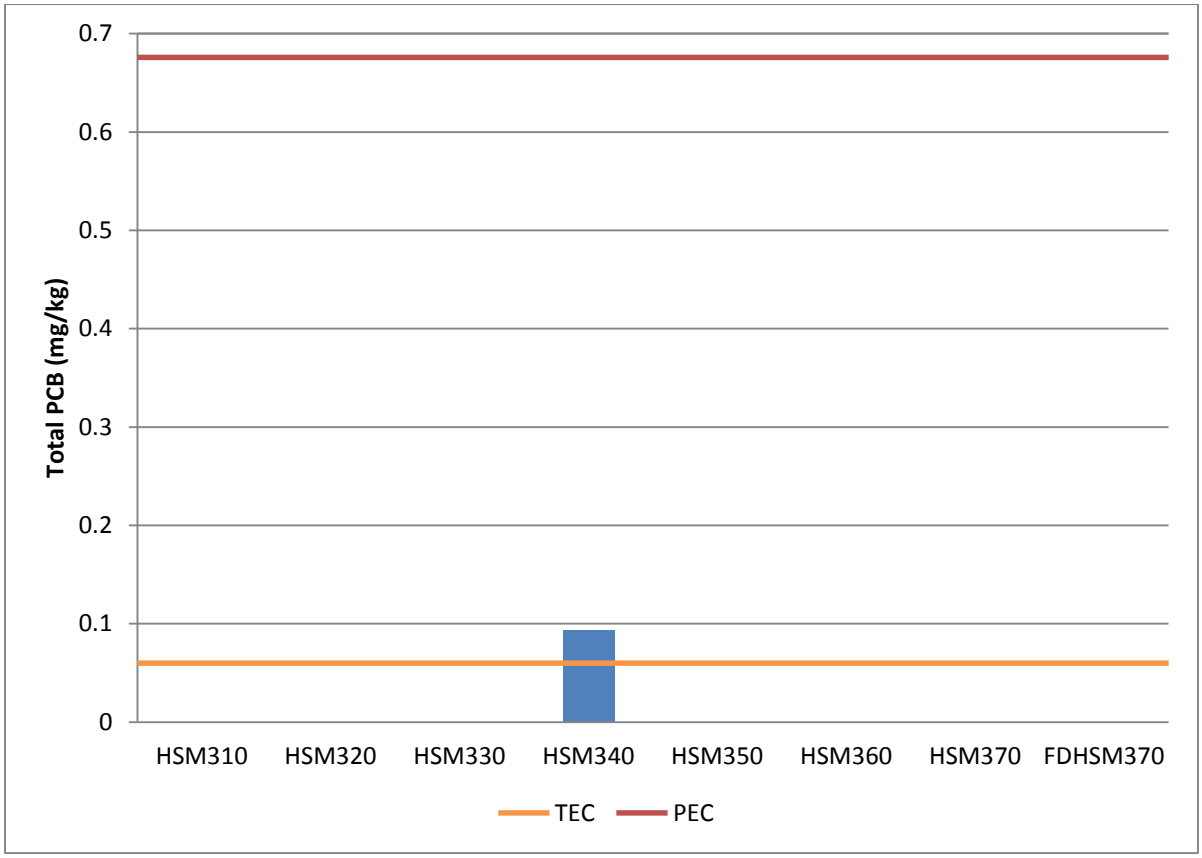
Table 19. Sediment Samples – Polychlorinated Biphenyls Detections - San Marcos Springs Complex

Location	Date Collected	Aroclor-1254 (mg/kg)	Aroclor-1260 (mg/kg)	Total PCBs (mg/kg)
HSM340	6/5/2015	0.041J	0.052J	0.093
TEC		0.060	0.005	0.0598
PEC		0.340	0.240	0.676

J – Detection is above the method detection limit, but below the reporting limit.

Mg/kg – milligrams per kilogram

Figure 17. San Marcos Springs Sediment 4,4-DDE Detections Compared to Threshold Effect Concentration (TEC) and Probable Effect Concentration (PEC) values



7.2.2.6 Sediment - Metals

Many metals are naturally occurring within soil, rock, and sediment. Sediment sample results for metals at the San Marcos Springs complex tested positive for several metals, generally at low concentrations. Metals detected above the method detection limit and subsequently evaluated in this report for potential toxic effects using the TEC and PEC standards are: antimony, arsenic, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel, silver, and zinc. Other metals detected that do not have a TEC or PEC value available are aluminum, barium, beryllium, and selenium which were compared to TSBC (TCEQb, 2014). All selenium detections were below the laboratory reporting limit but above the TSBC level of 0.3 mg/kg. Sediment studies of selenium concentrations have shown that levels below four mg/kg are not likely to bioaccumulate in the food chain or have adverse impacts on the reproduction of fish or aquatic birds (Lemly, 1995; Moore et al., 1990; Van Derveer and Canton, 1996). Selenium detections did exceed this amount at HSM320 with a detected concentration of 4.20 J mg/kg.

Metal detections are listed in Table 20. Metals with detections above an established TEC value are displayed graphically in Figures 18–24, for arsenic, cadmium, copper, iron, lead, manganese, and zinc, respectively. Selenium detections are shown in Figure 25 in comparison to the TSBC and suggested toxic level of four mg/kg.

Table 20. Sediment Samples – Metal Detections - San Marcos Springs Complex

Location	Date Collected	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Aluminum (mg/kg)	Iron (mg/kg)	Manganese (mg/kg)
HSM310	6/5/2015	<0.454	7.22	70.1	0.823 J	0.64 J	23.4	13.5	21.6	15.8	2.15 J	0.506 J	95.1	9790	16300	401
HSM320	6/5/2015	<0.665	7.16	87.3	1.16 J	1.17 J	26.6	58.3	65.4	20.5	4.2 J	0.822 J	253	12400	24500	390
HSM330	6/5/2015	<0.164	5.99	38.4	<0.258	0.292 J	8.38	3.84	16	10.8	<0.332	<0.179	60.7	1200	9350	334
HSM340	6/5/2015	0.225 J	2.98	31	<0.256	0.441 J	17	13.6	63.5	9.6	<0.329	0.221 J	61.2	2840	7640	152
HSM350	6/5/2015	<0.284	5.69	45.4	0.469 J	0.596 J	15.3	17.8	35.5	14.5	1.18 J	0.384 J	84.6	4890	12100	343
HSM360	6/5/2015	<0.175	4.11	34.7	0.343 J	0.427 J	10	5.74	54.4	9.41	0.386 J	0.259 J	33	4930	9170	240
HSM370	6/5/2015	<0.223	11	42.7	0.436 J	0.612 J	11.6	8.3	17.9	18	<0.451	0.282 J	42.6	5760	15300	439
FDHSM370	6/5/2015	<0.24	8.3	55.7	0.54 J	0.56 J	14	8.41	19.6	14.9	0.67 J	<0.262	43.5	8180	13800	471
TEC		2	9.79	NE	NE	0.99	43.4	31.6	35.8	22.7	NE	1	121	NE	20000	460
PEC		25	33.0	NE	NE	4.98	111	149	128	48.6	NE	2.2	459	NE	40000	1100
Soil background level		1.0	5.9	300	1.5	NE	30	15	15	10	0.3	NE	30	30000	15000	300

J – Detection is above the method detection limit, but below the reporting limit.

Mg/kg – milligrams per kilogram

NE – Not established

PEC – probable effect concentration

TEC – threshold effect concentration

Figure 18. San Marcos Springs Sediment Arsenic Detections Compared to Threshold Effect Concentration (TEC) and Probable Effect Concentration (PEC) Values

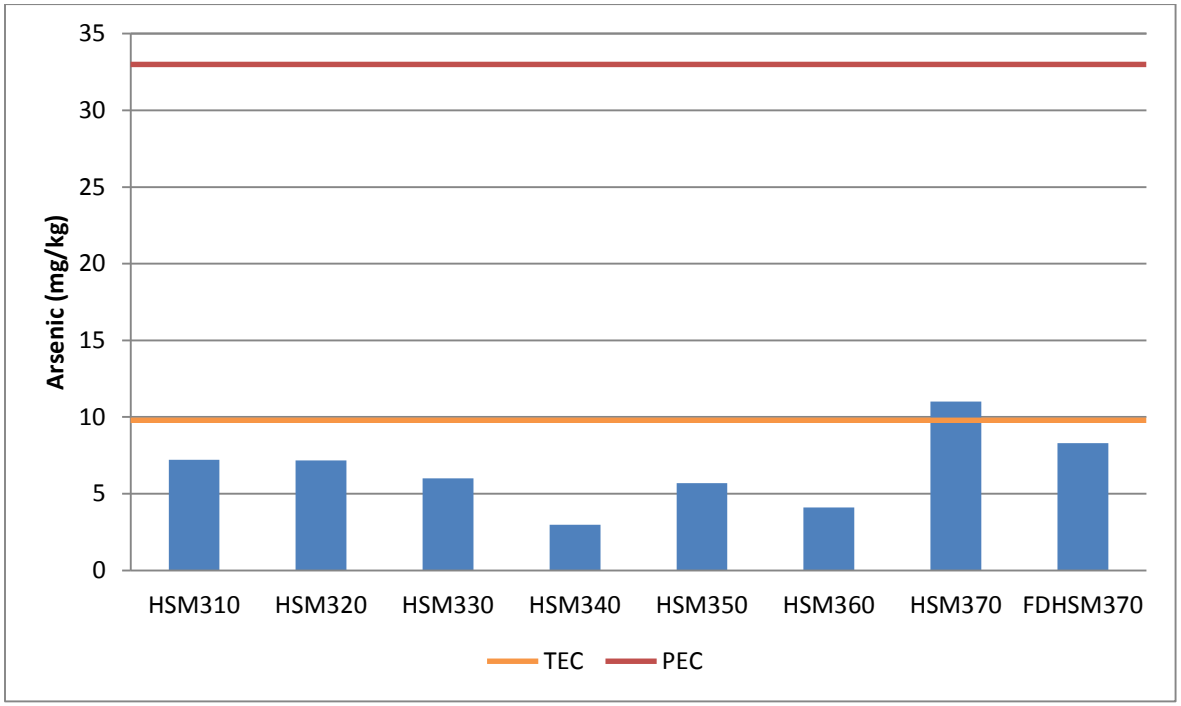


Figure 19. San Marcos Springs Sediment Cadmium Detections Compared to Threshold Effect Concentration (TEC) and Probable Effect Concentration (PEC) Values

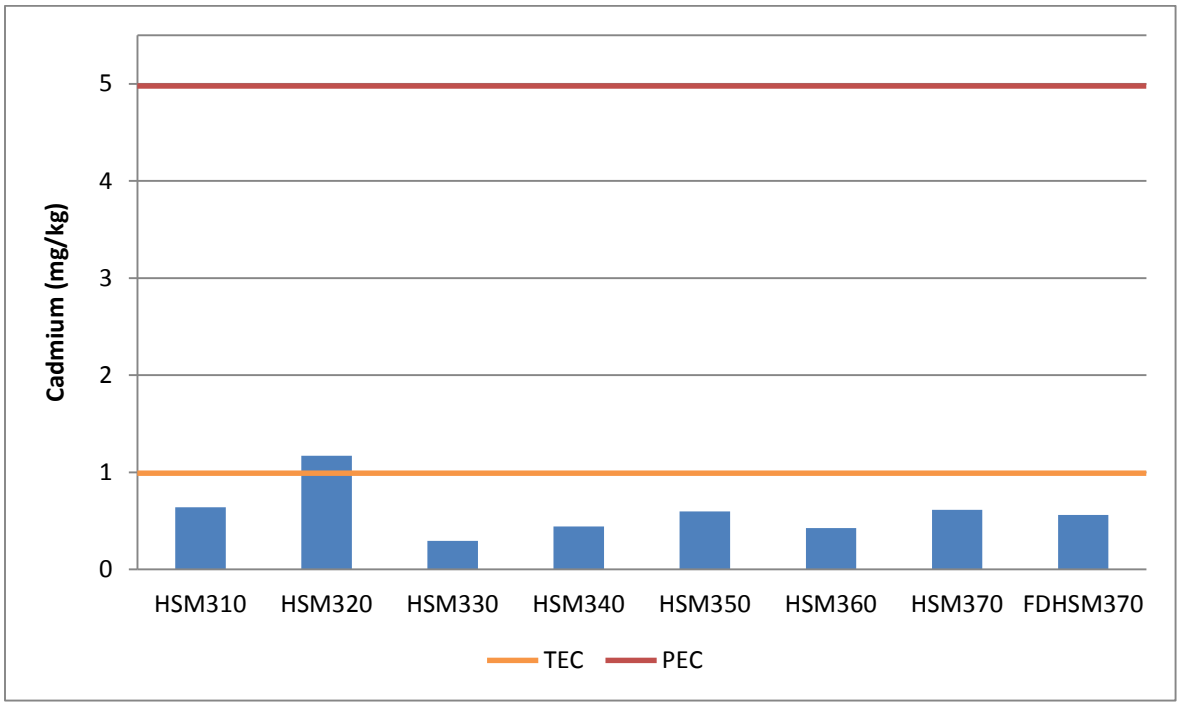


Figure 20. San Marcos Springs Sediment Copper Detections Compared to Threshold Effect Concentration (TEC) and Probable Effect Concentration (PEC) Values

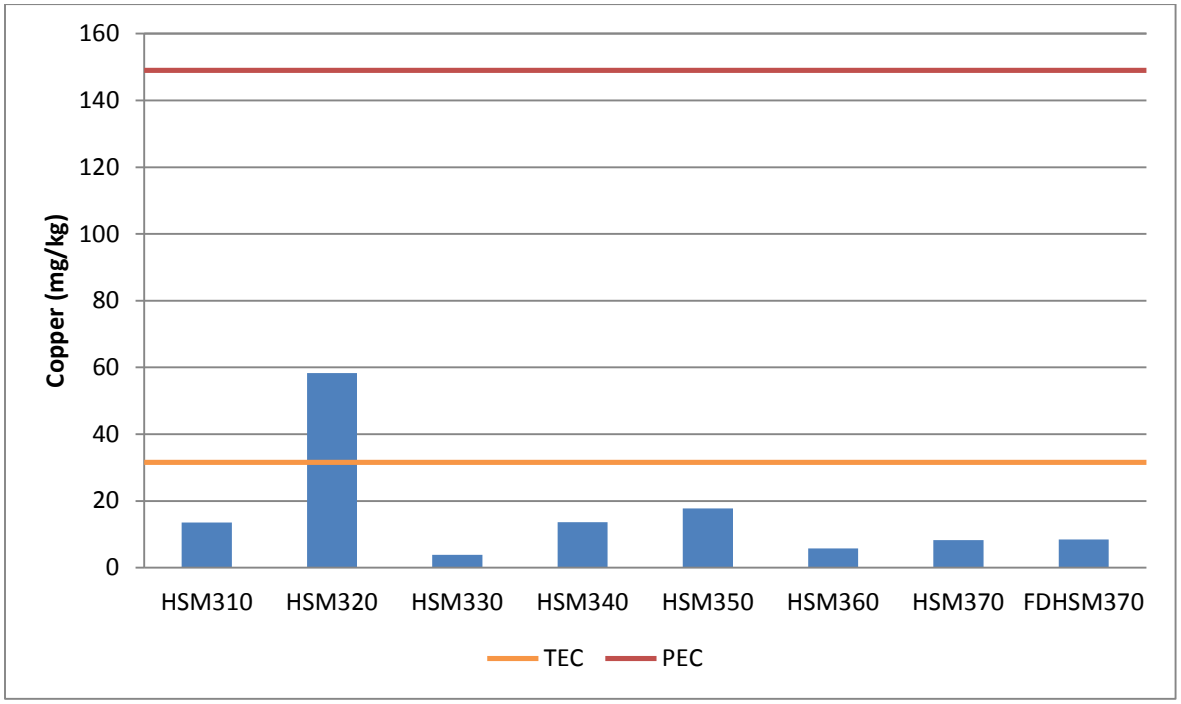


Figure 21. San Marcos Springs Sediment Iron Detections Compared to Threshold Effect Concentration (TEC) and Probable Effect Concentration (PEC) Values

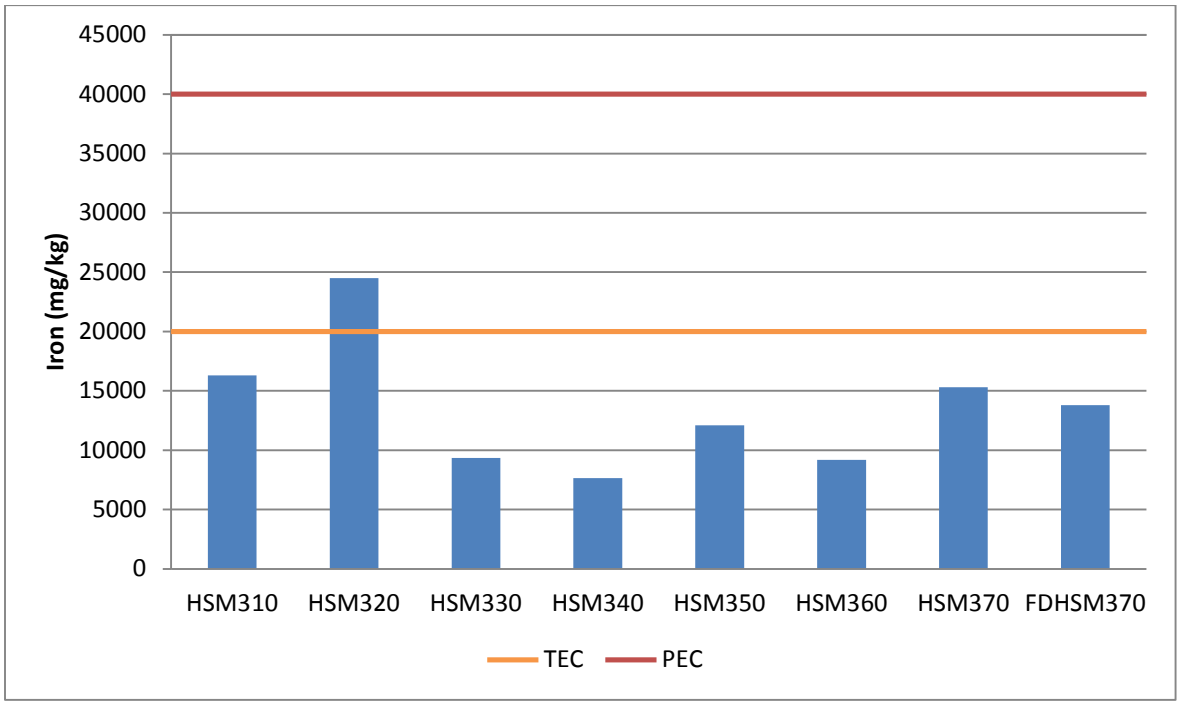


Figure 22. San Marcos Springs Sediment Lead Detections Compared to Threshold Effect Concentration (TEC) and Probable Effect Concentration (PEC) Values

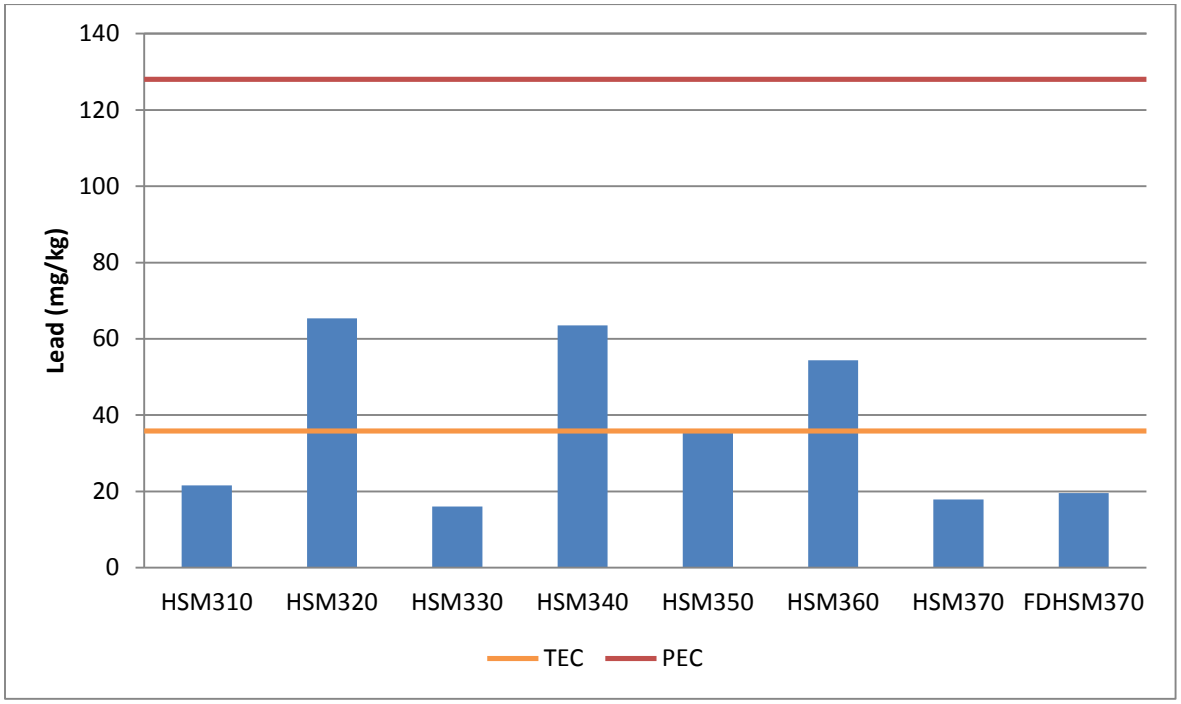


Figure 23. San Marcos Springs Sediment Manganese Detections Compared to Threshold Effect Concentration (TEC) and Probable Effect Concentration (PEC) Values

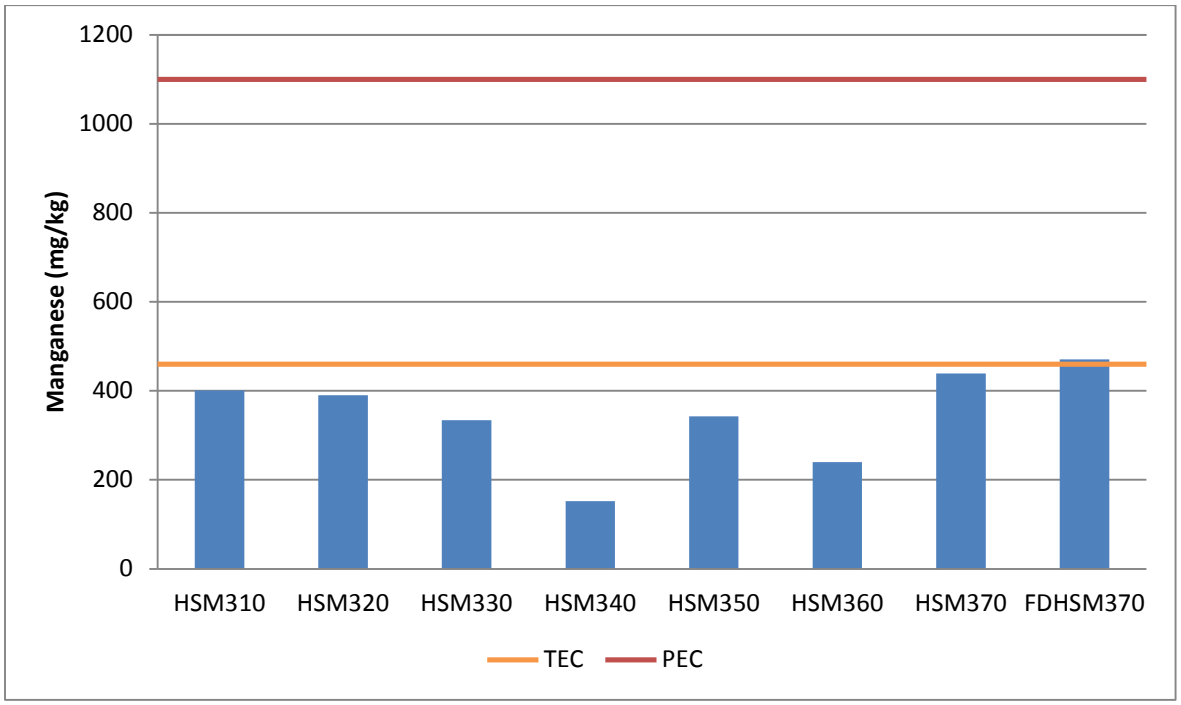


Figure 24. San Marcos Springs Sediment Zinc Detections Compared to Threshold Effect Concentration (TEC) and Probable Effect Concentration (PEC) Values

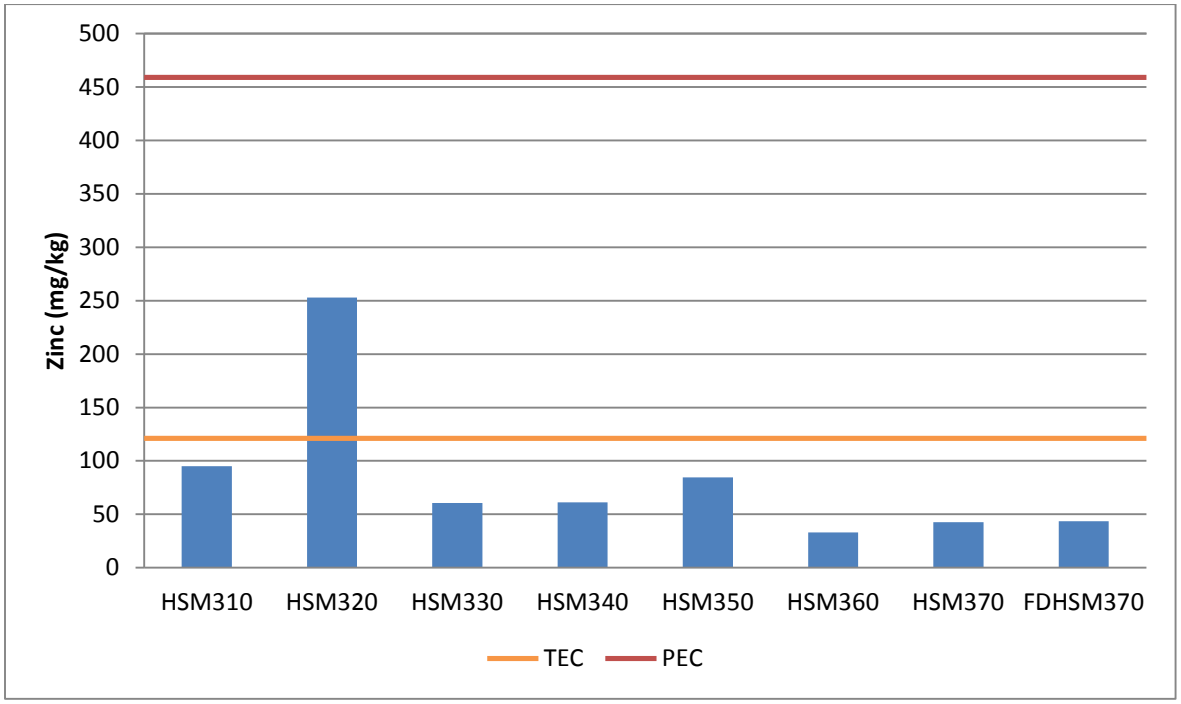
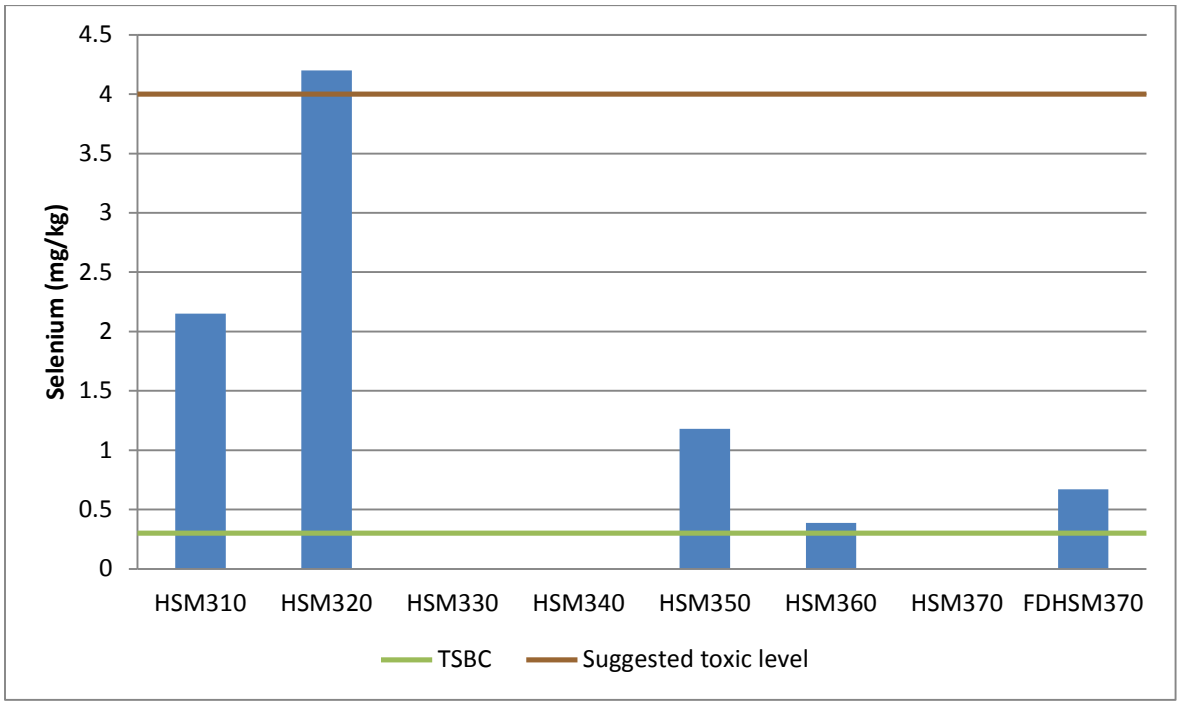


Figure 25. San Marcos Springs Sediment Selenium Detections Compared to Texas-Specific Background Concentration (TSBC) and Possible Bioaccumulation Toxic Values



7.2.3 San Marcos Springs Stormwater Sampling

Stormwater samples were collected during two storm events at the San Marcos Springs complex. Each event was sampled according to the guidelines in the EAHCP workplan. Event 1 occurred on May 5–6, 2015. Total rainfall for the first event was approximately 0.25 to 0.50 inches (NOAA, 2015) causing streamflow measured at USGS Gauge 08170500 to increase from approximately 180 cfs to a peak of 205 cfs during the event (USGS, 2015). The second event occurred on October 23, 2015, with approximately 2.50 to 2.99 inches of precipitation falling during the 24-hour period beginning at 7:00 AM on October 23, 2015 (NOAA, 2015). Sampling efforts occurred during the first pulse of the storm when precipitation was estimated to be approximately 1 inch.

7.2.3.1 Stormwater - Bacteria Detections

Stormwater samples collected and analyzed for bacteria analyses generally tested positive for high levels of bacteria. The 2014 Texas Surface Water Quality Standard for *E. coli* in primary recreation waters is a geometric mean of 126 MPN/100 mL with no individual sample exceeding 399 MPN/100 mL (30 TAC 307.7). The geometric mean for stormwater samples collected from the San Marcos Springs complex during May 2015 was 1264.1 MPN/100 mL. Bacteria counts ranged from 66 MPN/100 mL to 24,000 MPN/100 mL with several samples exceeding the individual sample limit during the May 2015 event. In October 2015, E. coli counts ranged from 41 MPN/100 mL to 87,000 MPN/100 mL with a geometric mean of 3693.4 MPN/100 mL. Individual detections are listed below in Table 21 and shown in relation to stream discharge and specific conductivity in Figures 26 and 27. Due to the timing of storm events and laboratory working hours, it was not possible to deliver all samples to the laboratory within sample holding times, as discussed in Appendix C. Samples exceeding hold times were included in the range and geometric mean calculations.

Table 21. Stormwater Samples – Bacteria Counts - San Marcos Springs Complex

Location	Date	Concentration (MPN/100 mL)
HSM210 Lead	5/5/2015	77 H
	10/23/2015	41 H
HSM210 Peak	5/5/2015	66 H
	10/23/2015	41 H
HSM210 Trail	5/6/2015	270 H
	10/23/2015	450 H
FDHSM210 Trail	5/6/2015	330 H
	10/23/2015	180 H
HSM230 Lead	5/5/2015	20000 H
	10/23/2015	87000 H
HSM230 Peak	5/5/2015	14000 H
	10/23/2015	11000 H
HSM230 Trail	5/6/2015	5200 H
	10/23/2015	73000 H

Table 21. Stormwater Samples – Bacteria Counts - San Marcos Springs Complex

Location	Date	Concentration (MPN/100 mL)
FDHSM230 Trail	5/6/2015	4600 H
	10/23/2015	65000 H
HSM231 Lead	5/5/2015	870 H
	10/23/2015	11000 H
HSM231 Peak	5/5/2015	770 H
	10/23/2015	2200 H
HSM231 Trail	5/6/2015	280 H
	10/23/2015	1700 H
FDHSM231 Trail	5/6/2015	330 H
	10/23/2015	1700 H
HSM240 Lead	5/5/2015	24000 H
	10/23/2015	28000 H
HSM240 Peak	5/6/2015	290 H
	10/23/2015	1000 H
HSM240 Trail	5/6/2015	210 H
	10/23/2015	750 H
HSM250 Lead	5/5/2015	2400 H
	10/23/2015	9200 H
HSM250 Peak	5/5/2015	2200 H
	10/23/2015	6500 H
HSM250 Trail	5/6/2015	2500 H
	10/23/2015	1900 H
HSM260 Lead	5/5/2015	2400 H
	10/23/2015	7300 H
HSM260 Peak	5/5/2015	2100 H
	10/23/2015	24000 H
HSM260 Trail	5/6/2015	1100 H
	10/23/2015	4600 H
HSM270 Lead	5/5/2015	1400 H
	10/23/2015	14000 H
HSM270 Peak	5/6/2015	5800 H
	10/23/2015	8700 H
HSM270 Trail	5/6/2015	1700 H
	10/23/2015	4100 H

H – Analyzed outside hold time, result included for comparison but not considered valid

MPN/100 mL – Most probable number per 100 milliliters of water

Figure 26. Stormwater Samples – May 2015 Bacteria Counts in Relation to Stream Discharge and Specific Conductivity – San Marcos Springs Complex

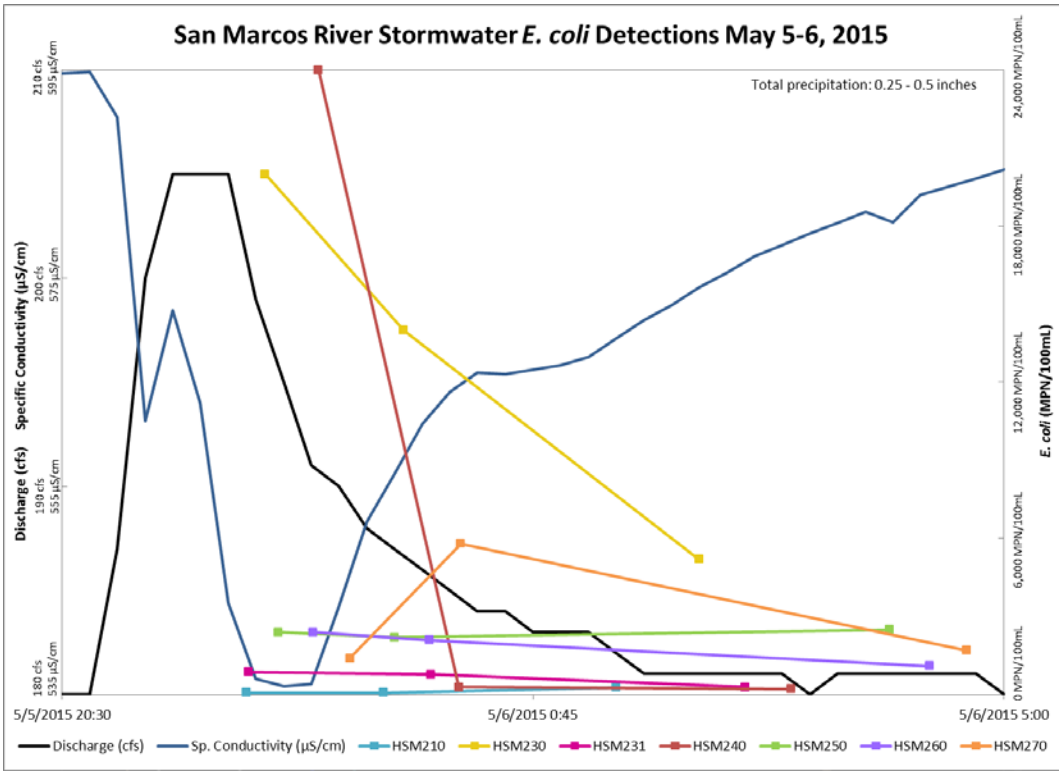
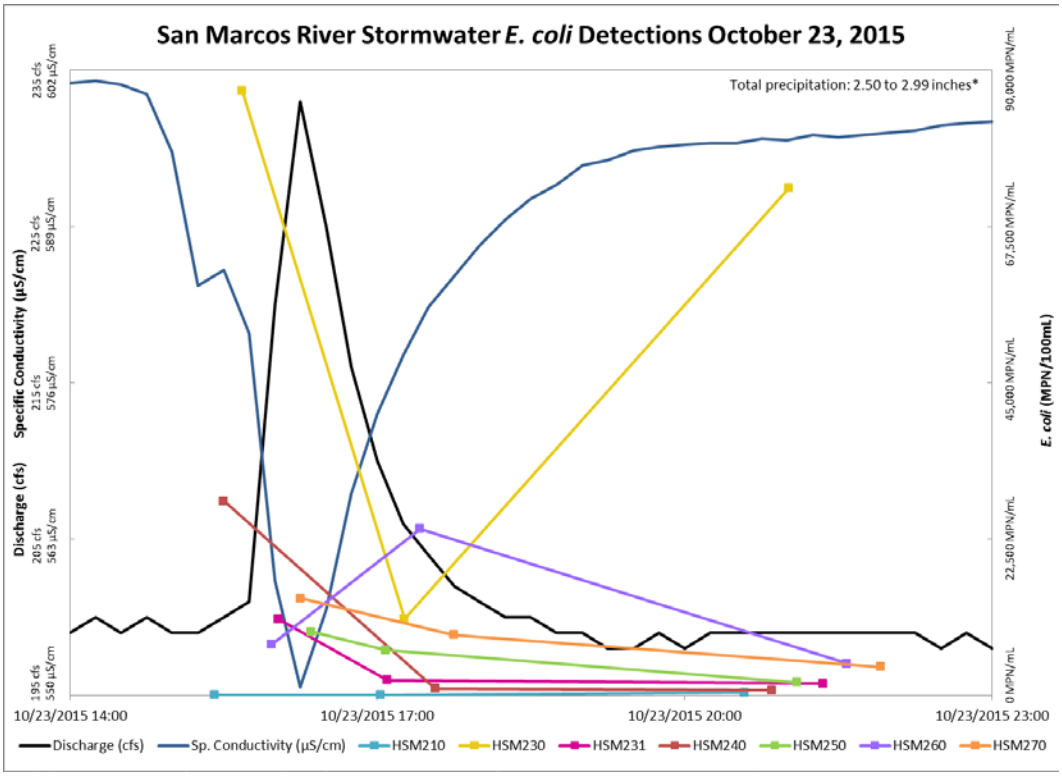


Figure 27. Stormwater Samples – October 2015 Bacteria Counts in Relation to Stream Discharge and Specific Conductivity – San Marcos Springs Complex



7.2.3.2 Stormwater - Volatile Organic Compounds (VOCs)

One VOC compound, p-Isopropyltoluene, was detected in HSM210 Trail during the May Sampling event. Trichloroethene was detected in two samples during the October sampling event. Toluene was also detected in one sample from the October event. All of these detections were below established MCLs or PCLs, and only one exceeded the laboratory reporting limit. The detections are summarized in Table 22.

Table 22. Stormwater Samples – Volatile Organic Compound Detections - San Marcos Springs Complex

Location	Date Collected	p-isopropyltoluene (µg/L)	Toluene (µg/L)	Trichloroethene (µg/L)
HSM210 Trail	5/6/2015	0.18 J	<0.24	<0.37
HSM230 Lead	10/23/2015	<0.16	<0.24	1.1
HSM240 Lead	10/23/2015	<0.16	<0.24	0.38 J
HSM240 Peak	10/23/2015	<0.16	0.26 J	<0.37
MCL		NE	1000	NE
PCL		2400	--	NE

J – Detection is above the method detection limit, but below the reporting limit

µg/L – milligrams per Liter

NE – Not established

MCL – maximum contaminant level

PCL – protective concentration levels

-- - not applicable

7.2.3.3 Stormwater - Semi-volatile Organic Compounds (SVOCs)

Stormwater samples were collected and analyzed for SVOCs. No SVOCs were detected in any of the samples collected from the San Marcos Springs complex during the May or October 2015 sampling events.

7.2.3.4 Stormwater - Herbicides and Pesticides

Stormwater samples were collected and analyzed for organochlorine pesticides, organophosphorous pesticides, and herbicides. There were very few detections of pesticides or herbicides in any of the stormwater samples collected from the San Marcos Springs complex during 2015. Endosulfan I was detected in the lead samples collected at HSM230 and HSM240 during the May 2015 event and in HSM230 Lead during the October 2015 event. 4,4-DDD was detected in the trail sample collected at HSM230 in May 2015. All of these detections were below the laboratory reporting limits and established PCLs for the compounds. These detections are shown in Table 23.

Table 23. Stormwater Samples – Pesticide Detections - San Marcos Springs Complex

Location	Date Collected	4,4-DDD (µg/L)	Endosulfan I (µg/L)
HSM230 Lead	5/5/2015	<0.027	0.048 J
	10/23/2015	<0.027	0.090 J
HSM230 Trail	5/6/2015	0.038 J	<0.028
HSM240 Lead	5/5/2015	<0.027	0.045 J
MCL		NE	NE
PCL		3.8	49

J – Detection is above the method detection limit, but below the reporting limit

µg/L – milligrams per Liter

MCL – maximum contaminant level

NE – Not established

PCL – protective concentration levels

7.2.3.5 Stormwater - Polychlorinated Biphenyls

Stormwater samples were analyzed for the various Aroclor compounds that are generally referred to collectively as PCBs. None of the stormwater samples from the San Marcos Springs complex indicated positive detections of PCB compounds during the May 2015 sampling event.

7.2.3.6 Stormwater - Metals

Stormwater samples were analyzed for metals in accordance with the EAHCP workplan. Several positive metal detections were noted in the sample set; however, no samples contained a metal at a concentration in excess of the drinking water MCL, and most detections were below laboratory reporting limits during the May 2015 sampling event.

7.2.3.7 Stormwater - Nitrates

Stormwater samples were analyzed for nitrate-nitrite as nitrogen in accordance with the EAHCP workplan. All samples contained nitrate results below the MCL of 10 mg/L. During the May 2015 event, the range of nitrate results was 0.38 mg/L to 1.5 mg/L, with an average concentration of 0.99 mg/L. During the October 2015 event, nitrate concentrations ranged from 0.60 mg/L to 1.6 mg/L, with an average of 1.1 mg/L. For comparison, the average nitrate in spring water samples at San Marcos Springs for calendar year 2014 was 1.42 mg/L (EAA, 2015). Nitrate detections are summarized in Table 24.

Table 24. Stormwater Samples – Nitrate Detections - San Marcos Springs Complex

Location	Date	Concentration (mg/L)
HSM210 Lead	5/5/2015	0.38
	10/23/2015	0.62 H
HSM210 Peak	5/5/2015	0.38
	10/23/2015	0.60 H
HSM210 Trail	5/6/2015	0.41
	10/23/2015	0.61 H
FDHSM210 Trail	5/6/2015	0.41
	10/23/2015	0.62 H
HSM230 Lead	5/5/2015	0.79
	10/23/2015	0.94 H
HSM230 Peak	5/5/2015	1.4
	10/23/2015	1.6 H
HSM230 Trail	5/6/2015	1.5
	10/23/2015	1.5 H
FDHSM230 Trail	5/6/2015	1.5
	10/23/2015	1.6 H
HSM231 Lead	5/5/2015	1
	10/23/2015	1.2 H
HSM231 Peak	5/5/2015	1.1
	10/23/2015	1.2 H
HSM231 Trail	5/6/2015	1.2
	10/23/2015	1.3 H
FDHSM231 Trail	5/6/2015	1.2
	10/23/2015	1.2 H
HSM240 Lead	5/5/2015	0.68
	10/23/2015	1.1 H
HSM240 Peak	5/6/2015	1.1
	10/23/2015	1.2 H
HSM240 Trail	5/6/2015	1.2
	10/23/2015	1.2 H
HSM250 Lead	5/5/2015	1
	10/23/2015	1.2 H
HSM250 Peak	5/5/2015	1
	10/23/2015	NA
HSM250 Trail	5/6/2015	1.1
	10/23/2015	1.2 H
HSM260 Lead	5/5/2015	1.1
	10/23/2015	1.2 H
HSM260 Peak	5/5/2015	1.1
	10/23/2015	1.2 H
HSM260 Trail	5/6/2015	1.1
	10/23/2015	1.2 H

Table 24. Stormwater Samples – Nitrate Detections - San Marcos Springs Complex

Location	Date	Concentration (mg/L)
HSM270 Lead	5/5/2015	1.1
	10/23/2015	1.1 H
HSM270 Peak	5/6/2015	1
	10/23/2015	1.2 H
HSM270 Trail	5/6/2015	1.1
	10/23/2015	1.2 H

H – Analyzed outside hold time, result included for comparison but not considered valid

mg/L – milligrams per liter

NA – Not analyzed

7.2.3.8 Stormwater – Caffeine

Stormwater was analyzed for caffeine, which can indicate an anthropogenic source. Caffeine may enter surface water from leaking sewer or septic systems or it may be present in the aquifer from similar sources in the recharge zone (EPA, 2012). Potential ecological effects are currently unknown but could include reduced reproductive success in aquatic species (EPA, 2012). Caffeine detections in stormwater samples from San Marcos Springs in May 2015 ranged from 10 ng/L to 4800 ng/L and were detected in every sample. Caffeine detections in stormwater samples from San Marcos Springs in October 2015 ranged from 2.4 ng/L to 2200 ng/L and were detected in every sample. There is no regulatory standard or expected value for comparison. Results are shown in Table 25.

Table 25. Stormwater Samples – Caffeine Detections - San Marcos Springs Complex

Location	Date Collected	Caffeine (ng/L)
HCS210 Lead	5/5/2015	10
	10/23/2015	5.7
HCS210 Peak	5/5/2015	17
	10/23/2015	5.8
HCS210 Trail	5/6/2015	13
	10/23/2015	2.4
FDHSM210 Trail	5/6/2015	14
	10/23/2015	5.7
HSM230 Lead	5/5/2015	4800
	10/23/2015	2200
HSM230 Peak	5/5/2015	830
	10/23/2015	260

Table 25. Stormwater Samples – Caffeine Detections - San Marcos Springs Complex

Location	Date Collected	Caffeine (ng/L)
HSM230 Trail	5/6/2015	290
	10/23/2015	470
FDHSM230 Trail	5/6/2015	340
	10/23/2015	450
HSM231 Lead	5/5/2015	370
	10/23/2015	210
HSM231 Peak	5/5/2015	83
	10/23/2015	61
HSM231 Trail	5/6/2015	25
	10/23/2015	19
FDHSM231 Trail	5/6/2015	25
	10/23/2015	15
HCS240 Lead	5/5/2015	3100
	10/23/2015	510
HCS240 Peak	5/6/2015	44
	10/23/2015	60
HCS240 Trail	5/6/2015	25
	10/23/2015	23
HCS250 Lead	5/5/2015	350
	10/23/2015	260
HCS250 Peak	5/5/2015	230
	10/23/2015	NA
HCS250 Trail	5/6/2015	130
	10/23/2015	24
HCS260 Lead	5/5/2015	230
	10/23/2015	88
HCS260 Peak	5/5/2015	870
	10/23/2015	330
HCS260 Trail	5/6/2015	110
	10/23/2015	42
HCS270 Lead	5/5/2015	180
	10/23/2015	130
HCS270 Peak	5/6/2015	450
	10/23/2015	200
HCS270 Trail	5/6/2015	190
	10/23/2015	56

NA – Not analyzed
ng/L – nanograms per liter

7.2.4 San Marcos Springs Surface Water Passive Sampling

PDSs were installed in the San Marcos Springs system in February, April, June, August, October and December 2015. Any changes to deployment locations are discussed in Appendix C. There are no regulatory standards for comparison to PDS results. PDSs were analyzed for VOCs, SVOCs, and organochlorine pesticides. Few compounds were detected, only tetrachloroethene and TPH were consistently detected. Positive detections are shown below in Table 26.

Table 26. Passive Diffusion – San Marcos Springs Complex

Location	Month 2015	Chloroform (µg)	Ethylbenzene (µg)	Naphthalene (µg)	p/m-Xylene (µg)	Tetrachloroethene (µg)	Toluene (µg)	BTEX (µg)	TPH (µg)
HSM410	February	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	<0.02	0.90
	April	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	<0.02	0.93
	June	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	<0.02	0.60
	August	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	<0.02	<0.50
	October	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	<0.02	<0.50
	December	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	<0.02	<0.50
HSM420	February	<0.02	<0.02	<0.05	<0.02	0.08	<0.02	<0.02	<0.50
	April	<0.02	0.03	<0.05	0.09	0.10	0.02	0.14	0.54
	June	<0.02	<0.02	<0.05	<0.02	0.14	<0.02	<0.02	<0.50
	August	<0.02	<0.02	<0.05	<0.02	0.06	<0.02	<0.02	0.67
	October	<0.02	<0.02	<0.05	<0.02	0.08	<0.02	<0.02	<0.50
	December	<0.02	<0.02	<0.05	<0.02	0.10	<0.02	<0.02	<0.50
HSM430	February	<0.02	<0.02	<0.05	<0.02	0.13	<0.02	<0.02	1.27
	April	<0.02	<0.02	<0.05	<0.02	0.80	<0.02	<0.02	<0.50
	June	<0.02	<0.02	<0.05	<0.02	1.98	<0.02	<0.02	0.96
	August	<0.02	<0.02	<0.05	<0.02	0.68	<0.02	<0.02	<0.50
	October	<0.02	<0.02	<0.05	<0.02	0.94	<0.02	<0.02	<0.50
	December	0.02	<0.02	<0.05	<0.02	0.81	<0.02	<0.02	<0.50
FDHSM430	February	<0.02	<0.02	<0.05	<0.02	0.16	<0.02	<0.02	0.99
	April	<0.02	<0.02	<0.05	<0.02	0.72	<0.02	<0.02	0.54
	June	<0.02	<0.02	<0.05	<0.02	2.35	<0.02	<0.02	0.54
	August	<0.02	<0.02	<0.05	<0.02	0.89	<0.02	<0.02	<0.50
	October	<0.02	<0.02	<0.05	<0.02	1.01	<0.02	<0.02	<0.50
	December	0.02	<0.02	<0.05	<0.02	0.76	<0.02	<0.02	<0.50

Table 26. Passive Diffusion – San Marcos Springs Complex

Location	Month 2015	Chloroform (µg)	Ethylbenzene (µg)	Naphthalene (µg)	p/m-Xylene (µg)	Tetrachloroethene (µg)	Toluene (µg)	BTEX (µg)	TPH (µg)
HSM440	February	<0.02	<0.02	<0.05	<0.02	0.13	<0.02	<0.02	<0.50
	April	<0.02	<0.02	<0.05	<0.02	0.13	<0.02	<0.02	<0.50
	June	<0.02	<0.02	<0.05	<0.02	0.19	<0.02	<0.02	0.68
	August	<0.02	<0.02	<0.05	<0.02	0.11	<0.02	<0.02	1.18
	October	<0.02	<0.02	<0.05	<0.02	0.11	<0.02	<0.02	<0.50
	December	<0.02	<0.02	<0.05	<0.02	0.12	<0.02	<0.02	<0.50
HSM450	February	<0.02	<0.02	<0.05	<0.02	0.05	<0.02	<0.02	<0.50
	April	<0.02	<0.02	<0.05	<0.02	0.08	<0.02	<0.02	<0.50
	June	<0.02	<0.02	<0.05	<0.02	0.09	<0.02	<0.02	<0.50
	August	NA	NA	NA	NA	NA	NA	NA	NA
	October	<0.02	<0.02	<0.05	<0.02	0.04	<0.02	<0.02	<0.50
	December	<0.02	<0.02	<0.05	<0.02	0.05	<0.02	<0.02	<0.50
HSM460	February	<0.02	<0.02	<0.05	<0.02	0.09	<0.02	<0.02	<0.50
	April	<0.02	<0.02	<0.05	<0.02	0.11	<0.02	<0.02	<0.50
	June	<0.02	<0.02	<0.05	<0.02	0.15	<0.02	<0.02	0.67
	August	<0.02	<0.02	<0.05	<0.02	0.05	<0.02	<0.02	<0.50
	October	<0.02	<0.02	<0.05	<0.02	0.08	<0.02	<0.02	<0.50
	December	<0.02	<0.02	<0.05	<0.02	0.10	<0.02	<0.02	<0.50
HSM470	February	<0.02	<0.02	<0.05	<0.02	0.10	<0.02	<0.02	0.54
	April	<0.02	<0.02	<0.05	<0.02	0.09	<0.02	<0.02	0.68
	June	<0.02	<0.02	<0.05	0.03	0.18	<0.02	0.03	0.60
	August	<0.02	<0.02	<0.05	<0.02	0.05	<0.02	<0.02	<0.50
	October	<0.02	<0.02	0.05	<0.02	0.09	<0.02	<0.02	<0.50
	December	<0.02	<0.02	<0.05	<0.02	0.08	<0.02	<0.02	<0.50

BTEX – benzene, toluene, ethylbenzene, and xylenes

NA – Not analyzed

µg – micrograms

TPH – total petroleum hydrocarbons

8.0 SUMMARY OF RESULTS

SWCA staff collected surface water (base flow), stormwater, sediment, and passive diffusion samples from Comal and San Marcos springs complexes. The sampling events met the requirements of the EAHCP and provided background data for these two systems. The limited number of detections above comparative standards is indicative of generally high water quality. However, the total PAH and selenium results that exceeded comparative standards were of concern. Continued sampling will be helpful in assessing if these detected compounds are repeated and have the potential for any long-term impact on listed species. Specific detections of interest, such as compounds detected above an MCL (for water) or PEC (for sediment), are listed below.

San Marcos Sediment:

HSM340	Total PAH	62.64 mg/kg (PEC = 22.8)
HSM320	Selenium	4.20 J mg/kg (Bioaccumulation Toxicity = 4.0)

PAHs in Sediment

PAHs are a group of SVOCs common in urban runoff (Mahler et al., 2005) that can have adverse effects on aquatic life including plants, invertebrates, and fish. The effects of exposure vary but can include organ damage, reproductive harm, or immune system weakening (Mahler et al., 2005). Coal-tar parking lot sealants have been identified as a significant source of PAHs in urban waterways and were banned from use in areas surrounding the recharge zone of the Edwards Aquifer within Comal and Hays counties by the EAA in 2012. In each sample year thus far, levels of total PAH in sediment samples have exceeded TECs and PECs at several sites especially in the San Marcos Springs complex. Further investigation may be warranted to identify the extent of PAH presence in the sediment and to identify potential sources of PAHs.

Selenium in Sediment

The selenium concentration in sediment sample HSM320 of 4.20 J mg/kg is below the laboratory reporting and quantification limit. The concentration in sample HSM320 is above the TSBC level of 0.3 mg/kg. Sediment studies of selenium concentrations have shown that levels of 4 mg/kg or less are not likely to bioaccumulate in the food chain or have adverse impacts on the reproduction of fish or aquatic birds (Lemly, 1995; Moore et al., 1990; Van Derveer and Canton, 1996). Selenium detections did exceed this amount at HSM320 with a detected concentration of 4.20 J mg/kg.

DEHP in Sediment

DEHP was detected in the majority of sediment samples from the Comal and San Marcos springs complexes in 2013, but was considered by EAA to likely be a laboratory or sampling equipment artifact. DEHP was again detected in some samples from the San Marcos Springs complex in 2014 at HSM320, HSM330, and HSM350. Because other plasticizers were not present and different laboratories were used, it was a conclusion in 2014 that DEHP may be present in sediments in the San Marcos Springs complex. In 2015, equipment used to collect sediment samples did not contain plasticizers with the exception of one sample collected in the Comal River (HCS330). DEHP was again detected in some of the same San Marcos Springs complex samples (HSM330, HSM340, and HSM350). The continued detections of DEHP indicate that it may be present in the middle reaches of the San Marcos Springs complex.

Recommendations

Based on the data collected for this report combined with completion of several sample events, a few points worth consideration in future years are suggested. Although this data set adds to an initial baseline established by the 2013 and 2014 sampling programs, currently the data set is not adequate to make significant assessments regarding water or sediment quality. The current data set is extremely important for use in developing a baseline such that in the future, additional information can be added to it, allowing interested parties to better understand the surface water quality, stormwater impacts, and sediment quality trends of each system. In addition, the RTIs are very valuable for gathering basic water quality data and tracking any changes to basic water quality over time.

Based on this third year of work, the following changes should be considered for the 2016 EAHCP Workplan.

- A more detailed study of the presence of PAH compounds in the middle reaches of the San Marcos Springs complex should be considered to evaluate potential sources of the PAH compounds and the vertical and lateral extents of impacted areas.
- If the concentrations of DEHP detected in sediments are determined to be harmful to the endangered species, then additional sampling and analysis should be conducted to evaluate the vertical and lateral extents of impacted areas.

9.0 DATA QUALITY OBJECTIVES

SWCA evaluated each sampling event to determine if procedures should be modified to improve data collection to ensure data quality objectives were met. A discussion of problems encountered, deviations to the workplan, and resolutions to these circumstances are provided in Appendix C. The only ongoing challenge recognized is the inability to consistently deliver *E. coli* samples to a laboratory within hold times during stormwater sampling events. This inability is inherent to stormwater sampling events due to the occurrence of storms during non-working hours. Special runners are utilized to deliver samples to the laboratory as early as possible to minimize hold time exceedances.

Based on procedures implemented to correct or improve data collection methods and the relatively low significance of the deviations, the circumstances described in Appendix C do not compromise the integrity of the study or this report.

10.0 DEFINITIONS

Alkalinity	The capacity of water to neutralize acids, a property imparted by the water's content of carbonate, bicarbonate, hydroxide, and on occasion borate, silicate, and phosphate. It is expressed in milligrams per liter of equivalent calcium carbonate (mg/l $CaCO_3$).
Aquifer	Underground geological formation or group of formations containing water; source of groundwater for wells and springs.
ASTM	Abbreviation for American Society for Testing and Materials. A nonprofit organization that develops and publishes approximately 12,000 technical standards, covering the procedures for testing and classification of materials of every sort.
Bacteria	Microscopic living organisms that can aid in pollution control by metabolizing organic matter in sewage, oil spills, or other pollutants. However, certain bacteria in soil, water, or air can also cause human, animal, and plant health problems.
Basin	Any area draining to a point of interest.
Baseline data	Initial data generated by consistent monitoring of the same sites over time.
Caffeine	A stimulant drug found naturally in coffee, tea, and chocolate, and also within soft drinks and other foods. If detected, it might indicate an anthropogenic source of water impacts.
Channel	A long, narrow excavation or surface feature that conveys surface water and is open to the air.
Deionized water	Water with all ions removed.
Detection limit	The lowest concentration of a given pollutant that an analytical method or equipment can detect and still report as greater than zero. Generally, as readings approach the detection limit, they become less and less reliable quantitatively.
Dissolved solids	The total amount of dissolved material, organic, and inorganic, contained in water or wastewater. Measurements are expressed as ppm or mg/L.
DO	Abbreviation for dissolved oxygen. Oxygen molecules that are dissolved in water and available for living organisms to use for respiration. Usually expressed in milligrams per liter or percent of saturation. The concentration of DO is an important environmental parameter contributing to water quality.
DOC	Abbreviation for dissolved organic carbon, a broad classification of organic molecules of varied origin and composition within aquatic systems. Organic

	carbon compounds are a result of decomposition processes from dead organic matter, such as plants.
DQO	Abbreviation for data quality objectives, a process used to develop performance and acceptance criteria or data quality objectives that clarify study objectives, define the appropriate type of data, and specify tolerable levels of data needed to support decisions.
Drainage	The collection, conveyance, containment, and/or discharge of surface and stormwater runoff.
EARIPHCP	Abbreviation for Edwards Aquifer Recovery Implementation Program Habitat Conservation Plan.
Endpoint	That state in titration at which an effect, such as a color change, occurs, indicating that a desired point in the titration has been reached.
Equipment blank	Sample used to assess the effectiveness of the decontamination process on sampling equipment. The equipment blank is prepared by pouring reagent-grade water over/through sampling equipment and analyzing for parameters of concern (to match the sampling routine applicable to the site).
Field duplicate	Second sample collected simultaneously from the same source as the parent sample, but which is submitted and analyzed as a separate sample. This sample should generally be identified such that the laboratory is unaware that it is a field duplicate.
Filtration	The process of separating solids from a liquid by means of a porous substance (filter) through which only the liquid can pass.
Groundwater	Water found beneath Earth's surface that fills pores between materials, such as sand, soil, or gravel.
Habitat	The specific area of environment in which a particular type of plant or animal lives and grows.
HCP	Abbreviation for Habitat Conservation Plan. A planning document that is required by the United States Fish and Wildlife Service as part of their enforcement of the Endangered Species Act.
LCS/LCSD	Abbreviation for Laboratory control samples and laboratory control sample duplicate. LCS/LCSD are evaluated to assess overall method performance and are the primary indicators of laboratory performance. In general, laboratory control samples are similar in composition as the environmental samples, contain known concentrations of all the analytes of interest, and undergo the same preparatory and determinative procedures as the environmental samples. A

	LCS/LCSD may be analyzed to provide information on the precision of the analytical method.
MS/MSD	Abbreviation for matrix spike/matrix spike duplicate. MS/MSD results are examined to evaluate the impact of matrix effects on overall analytical performance and potential usability of the data. A matrix spike is a representative environmental sample that is spiked with target analytes of interest prior to being taken through the entire analytical process in order to evaluate analytical bias for an actual matrix. A matrix duplicate is a collected (e.g., a VOC soil sample) or a homogenized sample that is processed through the entire analytical procedure in order to evaluate overall precision for an actual matrix.
MDL	Abbreviation for method detection limit, minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero, as determined from analysis of a sample containing the analyte in a given matrix.
MPN	Abbreviation for most probable number. An analytical method used to detect the presence of coliforms in a water sample and estimate their numbers.
PCBs	Abbreviation for polychlorinated biphenyls. Group of more than 200 chlorinated toxic hydrocarbon compounds that can be biomagnified.
PCL	Abbreviation for protective concentration levels which is established to protect human health.
Peak	Maximum instantaneous flow at a specific location resulting from a given storm condition.
pH	A measure of the alkalinity or acidity of a substance. Also defined as "the negative logarithm of the hydrogen ion concentration ($-\log10[H^+]$) where H^+ is the hydrogen ion concentration in moles per liter. The pH of a substance is neutral at 7.0, acidic below 7.0, and alkaline above 7.0.
PQL	Abbreviation for practical quantitation limit, which is the smallest concentration of the analyte that can be reported with a specific degree of confidence.
Precipitation	The discharge of water, in liquid or solid state, out of the atmosphere, generally upon a land or water surface. Precipitation includes rainfall, snow, hail, and sleet.
Precision	The ability of a measurement to be consistently reproduced.
QA/QC	Abbreviation for quality assurance/quality control. The total integrated program for assuring reliability of monitoring and measurement data.

Recession	End of runoff event, which is defined as the point in time when the recession limb of the hydrograph is <2 percent of the peak or is within 10 percent of the prestorm base flow, whichever is greater.
RPD	Abbreviation for relative percent difference. The RPD provide a measure of precision.
Representative	Said of samples collected that are similar to those of groundwater in its in situ condition.
RL	Abbreviation for reporting limit, the smallest concentration of an analyte reported by the laboratory to a customer. The RL is never less than the PQL and is generally twice the MDL.
Runoff	Precipitation, snow melt, or irrigation water that runs off the land into surface water. Runoff can carry pollutants from the air and land into the receiving waters.
Sediment	Fragmental material that originates from weathering of rocks and is transported by, suspended in, or deposited by water or air.
Shelby Sampler	A thin-walled tube with a cutting edge at the toe. A sampler head attaches the tube to the drill rod and pressure vents. Generally used in cohesive soils. Soil or sediment sampled from this sampler is considered undisturbed.
Spring	Water coming naturally out of the ground.
Stormwater	Stormwater is the water that runs off surfaces such as rooftops, paved streets, highways, and parking lots. It can also come from hard, grassy surfaces such as lawns, play fields, graveled roads, and parking lots.
Surface water	That which forms and remains above ground, such as lakes, ponds, rivers, streams, bays, and oceans.
SVOC	Abbreviation for semi-volatile organic compounds, which is a group of chemicals composed primarily of carbon and hydrogen that have a relatively low tendency to evaporate (volatilize) into the air from water or soil. Some of the compounds that make up asphalt are examples of SVOCs.
TDS	Abbreviation for total dissolved solids, or the total amount of all inorganic and organic substances, including minerals, salts, metal, cations, or anions that are dispersed within a volume of water.
Temporal	Over a period of time.
TKN	Abbreviation for total Kjeldahl nitrogen, which is the total concentration of organic and ammonia nitrogen in wastewater.

TOC	Abbreviation for total organic carbon, which is the gross amount of organic matter found in natural water. Suspended-particulate, colloidal, and dissolved organic matter are part of the TOC measurement. Settable solids consisting of inorganic sediments and some organic particulate are not transferred from the sample by the lab analyst and are not part of the TOC measurement.
TSBC	Texas-specific Background Concentrations as established by the Texas Commission on Environmental Quality.
Turbidimeter	An instrument for measuring turbidity in which a standard suspension is used for reference.
Turbidity	A measure of how clear the water is; how much the suspended material in water results in the scattering and absorption of light rays. An analytical quantity is usually reported in turbidity units and determined by measurements of light diffraction. Material that can increase turbidity (reduce clarity of water) are suspended clay, silt, sand, algae, plankton, microbes, and other substances.
Trip blank	Sample known to be free of contamination (for target analytes) that is prepared in the laboratory and treated as an environmental sample after receipt by the sampler. Trip blank samples are applicable to VOC analysis only.
TSS	Abbreviation for total suspended solids, which are the nonfilterable residue retained on a glass-fiber disk filter mesh measuring 1.2 micrometers after filtration of a sample of water or wastewater.
USGS	Abbreviation for Unites States Geological Services. USGS is a federal research organization which provides impartial information on health of ecosystems and environment, natural hazards which may threaten us, natural resources, impacts of climate and land use change, and core science systems which provide timely, relevant, and useable information.
VOC	Abbreviation for volatile organic compounds, which are often used as solvents in industrial processes and are either known or suspected carcinogens or mutagens. The five most toxic are vinyl chloride, tetrachloroethene, trichloroethene, 1,2-dichloroethane, and carbon tetrachloride.
Whirl-Pak®	Sterilized, clear polyethylene bag used to collect water samples for analysis.
WQAL	Abbreviation for a list of parameters defined as the following: pH, conductivity, temperature, dissolved oxygen, turbidity, and alkalinity in the field. Other parameters submitted for laboratory analysis include cations, anions, nutrients, metals, VOCs, SVOCs, herbicides and pesticides, bacteria, TOC, PCBs, and phosphorous.

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APPENDIX A

EDWARDS AQUIFER HABITAT CONSERVATION PLAN (EAHCP) WORKPLAN

2015 Water Quality Monitoring Program Strategy for Comal Springs and San Marcos Springs in Support of the Edwards Aquifer Habitat Conservation Plan

March 25, 2014

Prepared by

Edwards Aquifer Authority

INTRODUCTION

This Work Plan details the sampling strategy and protocols for surface water quality monitoring in 2015 for the Edwards Aquifer Habitat Conservation Plan (EAHCP) document (Section 5.7.2) implemented by the Edwards Aquifer Authority (EAA), utilizing a third party contractor. The goal of the water quality monitoring program, first implemented in 2013, is to detect water quality impairments that may negatively impact the listed species. In the event that certain constituents of concern are detected at levels indicating the potential for adverse effects, the Implementing Committee member with jurisdictional authority will be consulted to identify sources and consider Best Management Practices (BMPs) to reduce and/or eliminate the constituents of concern. If necessary, additional testing could be included in the current or following year to assist in determining the source of contamination and the Science Committee could be consulted to assist with BMP identification and source determination.

SCOPE OF WORK

The Water Quality Monitoring Program described below includes surface water, storm water, groundwater, and sediment sampling within Comal Springs and San Marcos Springs and associated river systems. Sample collection and analyses performed by EAA staff in 2013, has been performed by a contractor since 2014.

For 2015, the contractor will use the same sampling locations used in 2014 and as shown in the attached figures. However, changes in springflow, surface water runoff, land use, site security and access may dictate minor modification to sample collection locations and schedules as sampling efforts progress. Any minor changes resulting from these factors that are necessary as a result of safety or equipment concerns will be noted in the field sample sheets and dedicated field books. Should logistics or safety issues require any significant changes to this workplan, the sampling contractor shall report those issues to the EAA. Subsequently, the EAA will present those changes to the Science and Implementing committees for review and approval as needed prior to their implementation.

COMAL SPRINGS

Comal Springs discharges an average of 291 cubic feet second (cfs) into Landa Lake, located within the city of New Braunfels, Texas. Comal Springs is considered a spring complex with multiple discharge points along the 4,500 foot reach of Landa Lake. The springs issue from the Edwards Group limestone along the 4,500-foot section of the northeast-southwest trending escarpment formed by the Comal Springs Fault. Landa Lake forms the headwaters of the Comal River which flows approximately two miles before entering the Guadalupe River.

Discharge measurements have been collected from Comal Springs since 1933 and the EAA has been collecting water quality samples for more than ten years. In recent years, the EAA has been collecting samples from Spring 1, Spring 3, and Spring 7 on a quarterly basis during normal flow conditions and on a monthly basis when the San Antonio pool critical period triggers have been reached. Spring 1, Spring 3, and Spring 7 discharge into Landa Lake and make up part of the Comal Springs complex. Figure 1 indicates these historical groundwater sampling locations. Water quality samples are collected and analyzed for: dissolved oxygen (DO), pH, conductivity, and temperature, in the field and for alkalinity[1]. Samples are also submitted to the EAA contract laboratory for analysis of cations, anions, nutrients, metals, VOCs, SVOCs, herbicides and pesticides, bacteria, TOC, PCBs, and phosphorous. This list of parameters is defined as the water quality analytical list (WQAL).

Sampling Methods

All samples will be collected following the EAA's *Field Sampling Plan* or contractor established methodology upon approval by the EAA. Samples shall be analyzed by a NELAP accredited contract laboratory. To date no requests to deviate from the EAA's *Field Sampling Plan* have been received or approved.

EAHCP Surface Water Sampling Locations

To comply with sampling requirements outlined in the EAHCP, five additional surface water sampling locations (Figure 2) were identified in the 2013 EAHCP Water Quality Work Plan for intensive monitoring in the Landa Lake and Comal River area as listed below:

Upper Springs (near Bleiders Creek);
Upper Landa Lake - (near Spring Island);
Lower Landa Lake - (above outfalls);
Upper Old Channel - (Elizabeth Street); and,
USGS Gauge - (above San Antonio Street Bridge).

[1] Alkalinity analysis will be conducted within eight hours of sample collection.

Surface Water Sampling Frequency
In 2015, water samples will be collected twice from each of the five surface water locations listed above. The interval between sampling events will be approximately six months. Water samples will be analyzed for the WQAL parameters and caffeine using a National Environmental Laboratory Accreditation Program (NELAP) laboratory. A listing of analytical parameters is provided in Appendix A.

Sediment Sampling
One sediment sample will be collected during 2015 from each of the surface water sampling locations (Figure 2). Three samples will be collected from each sample site and composited into a single sample for analysis (to minimize VOC loss, it is recommended the compositing process be performed at the laboratory). Sediment samples will be analyzed for the analytical parameters provided in Appendix B. Results of sediment sampling analysis will be used to formulate future sediment sampling at Landa Lake and the Comal River. Sediment samples will be collected from zero to three inches below the surface for calendar year 2015. Sediment sample intervals will likely vary in subsequent sample years based on the results of each year of sediment analyses.

Storm Water Sampling Program for Comal Springs
Two storm water sampling events will be performed in 2015 to evaluate storm water quality from the urban landscape. A storm water sampling event will be triggered when a local rainfall event causes a significant increase in spring flow at the historic Comal Springs gauging station or changes in two water quality parameters at any of the real time water quality monitoring stations. Three water quality samples will be collected and analyzed from each surface water sampling location during the sampling event. Sample times will be spaced to reflect changes in the stream hydrograph (initial rise or first flush, peak flow, and recession limb). Water samples will be analyzed for the WQAL parameters. A listing of analytical parameters for storm water samples is provided in Appendix A.

The following locations will be sampled for storm water as indicated on Figure 3:

Upper Springs (near Blieders Creek);
New Channel – (below confluence with Dry Comal Creek);
Upper Old Channel - (at Elizabeth Street);
Lower Old Channel - (above Hinman Island); and,
Comal River - (above confluence with Guadalupe River).

Groundwater Sample Collection for Extreme Low Flow Scenarios for Comal Springs
In the event flow at Comal Springs drops below 30 cfs, the EAHCP (6.4.3.3) calls for weekly monitoring of three wells in the vicinity of the spring complex for DO, conductivity, pH, and temperature. Should springflow drop below 20 cfs, then additional parameters to include nutrients,

TDS, and TOC are to be added to the weekly sample regimen. Analytical parameters for all low flow sampling is included in Appendix A. Based on conditions during the drought of record (circa 1950s), sampling for lower flow scenario could last for up to 21 weeks. The three specific wells to be used will be determined at the time of low flow sample initiation, based on well conditions and aquifer levels.

Real Time Instrument Water Quality Data Logging Program for Comal Springs
Continuous water quality monitoring stations will continue in 2015 at the following locations indicated on Figure 4:

Spring Run 3;
Spring 7; and,
New Channel (below confluence with Dry Comal Creek).

Monitoring will be performed using a data logging sonde capable of collecting data on 15 minute intervals. The parameters measured will include temperature, dissolved oxygen, pH, turbidity, and conductivity. These data will be evaluated to identify short-term and long-term water quality variations of the spring system as well as changes in water quality related to storm water runoff. **This monitoring effort will continue to be performed by EAA staff in 2015.**

Collection of Passive Diffusion Samples (Passive Samples) at Comal Springs
Passive samples are to be collected during the 2015 sampling effort using a passive diffusion type sampling device. Devices will be obtained from Amplified Geochemical Imaging LLC (AGI), or equivalent to the AGI device for functionality and analytical parameters. Sample locations for PDS samples are provided in Figure 5. The passive sampling effort shall be performed in February, April, June, August, October, and December. The devices shall be installed for a two-week interval at the same locations as the base flow surface water samples. Specifically at the sample points below.

Upper Springs (near Bleiders Creek);
Upper Landa Lake - (near Spring Island);
Lower Landa Lake - (above outfalls);
Upper Old Channel - (Elizabeth Street); and,
USGS Gauge - (above San Antonio Street Bridge).

The general parameter set for PDS samples is listed in Appendix A, under *Analytical Parameters for Passive Diffusion Samplers, Comal and San Marcos Springs.*

SAN MARCOS SPRINGS

Located in San Marcos, Texas on the campus of Texas State University, San Marcos Springs discharges an average of 176 cfs into Spring Lake. The springs issue from the Edwards Group limestone along the northeast-southwest trending escarpment formed by the San Marcos Springs Fault. Spring Lake forms the headwaters of the San Marcos River. Discharge measurements have been collected from San Marcos Springs since 1957 and the EAA has been collecting water quality samples for more than ten years.

In recent years, the EAA has been collecting samples from Deep Spring and Hotel Spring on a quarterly basis during normal flow conditions and on a monthly basis when the San Antonio pool critical period triggers have been reached. Both Deep and Hotel springs are located in the bed of Spring Lake and make up part of the San Marcos Springs complex. Figure 6 indicates these historical groundwater sample locations at San Marcos Springs. Water quality samples are collected and analyzed for: dissolved oxygen (DO), pH, conductivity, and temperature, in the field and for alkalinity[2]. Samples are also submitted to the EAA contract laboratory for analysis of cations, anions, nutrients, metals, VOCs, SVOCs, herbicides and pesticides, bacteria, TOC, PCBs, and phosphorous. For the purposes of EAHCP related water sampling, the analyte caffeine has been added to the list of analyzed parameters. This list of WQAL parameters is an identical to the list of parameters analyzed for at Comal Springs.

Sampling Methods

All samples will be collected following the EAA's *Field Sampling Plan* or contractor established methodology upon approval by the EAA. Samples shall be analyzed by a NELAP accredited contract laboratory. To date no requests to deviate from the EAA's *Field Sampling Plan* have been received or approved.

Surface Water Sampling Locations

To comply with sampling requirements outlined in the EAHCP document, seven additional surface water sampling locations (Figure 7) were identified in the 2013 HCP work plan for intensive monitoring as listed below:

Sink Creek;
Spring Lake;
Sessoms Creek;
City Park;
Rio Vista Dam;
I-35 reach; and,
Capes Dam/Willow Creek.

[2] Alkalinity analysis will be conducted within eight hours of sample collection.

Surface Water Sampling Frequency

In 2015, water samples will be collected twice from each of the seven surface water locations listed above. The interval between sampling events will be approximately six months. Water samples will be analyzed for the WQAL parameters and caffeine using a National Environmental Laboratory Accreditation Program (NELAP) laboratory. A listing of analytical parameters is provided in Appendix A.

Sediment Sampling

One sediment sample will be collected during 2015 from each of the surface water sampling locations (Figure 7). Three samples will be collected from each sample site and composited into a single sample for analysis (it is recommended that compositing of the sample be performed at the laboratory to minimize VOC loss). Sediment samples will be analyzed for the analytical parameters provided in Appendix B. Results of sediment sampling analysis will be used to formulate future sediment sampling at Spring Lake and the San Marcos River. Sediment samples will be collected from zero to three inches below the surface for calendar year 2015. Sediment sample intervals will vary in subsequent sample years based on the results of each year of sediment analyses.

Storm Water Sampling Program for San Marcos Springs

Two storm water sampling events will be performed in 2015 to evaluate storm water runoff from the urban landscape. A storm water sampling event will be triggered when a local rainfall event causes a significant increase in spring flow at the San Marcos Springs gauging station or changes in two water quality parameters at any of the real time water quality monitoring stations. Three water quality samples will be collected from each surface water sampling location during the sampling event. Sampling times will be spaced to reflect changes in the stream hydrograph (initial rise or first flush, peak flow, and recession limb). Water samples will be analyzed for the WQAL parameters. A listing of analytical parameters is provided in Appendix A, for storm water samples.

The following locations will be sampled for storm water as indicated on Figure 8:

Sink Creek;
Sessoms Creek;
Dog Beach Outflow;
Hopkins Street Outflow;
Purgatory Creek (above San Marcos River);
I-35 Reach; and
Willow Creek (above San Marcos River).

Groundwater Sample Collection for Extreme Low Flow Scenarios for San Marcos Springs
In the event flow at San Marcos Springs drops below 50 cfs, the EAHCP (6.4.4.3) calls for weekly monitoring of three wells in the vicinity of the spring complex for DO, conductivity, pH, and temperature. Should springflow drop below 30 cfs, then additional parameters to include Nutrients, TDS, and TOC are to be added to the sample regimen. Analytical parameters for all low flow sampling is included in Appendix A. Based on conditions during the drought of record (circa 1950s), sampling for lower flow scenario could last for up to 21 weeks. The three specific wells to be used will be determined at the time of sampling abased on well conditions and aquifer levels.

Real Time Instrument Water Quality Data Logging Program for San Marcos Springs
Continuous water quality monitoring stations were established in 2013 and will continue in 2015 at the following locations indicated on Figure 9:

USGS gauging station; and,
Rio Vista Dam.

Monitoring will be performed using a data logging sonde capable of collecting data on 15 minute intervals. The parameters measured will include temperature, dissolved oxygen, pH, turbidity, and specific conductance. These data will be evaluated to identify short-term and long-term water quality variations of the spring system as well as changes in water quality related to storm water runoff. **Continuous water quality monitoring stations will be operated and maintained by EAA**.

In 2015, an additional water quality data logging point is recommended for installation at the lower (south) end of the sample area for San Marcos. The additional station will help with the timing of storm sample collection as well as improved monitoring of the IH-35 and Willow Creek runoff impacts. Costs for this are included in Appendix C of this document. The location of the proposed new monitoring point is coincident with surface water sample point HSM170 (Capes Dam/Willow Creek area).

Collection of Passive Diffusion Samples (Passive Samples) at San Marcos Springs
Passive samples are to be collected during the 2015 sampling effort using a passive diffusion type sampling device. Devices will be obtained from AGI, or equivalent to the AGI device for functionality and analytical parameters. Sample locations for PDS samples are provided in Figure 10. The passive sampling effort shall be performed in February, April, June, August, October, and December. The devices shall be installed for a two-week interval at the same locations as the base flow surface water samples. Specifically at the sample points that follow.

Sink Creek;
Spring Lake;
Sessoms Creek;
City Park;
Rio Vista Dam;
I-35 reach; and,
Capes Dam/Willow Creek.

The general parameter set for PDS samples is listed in Appendix A, under *Analytical Parameters for Passive Diffusion Samplers, Comal and San Marcos Springs.*

WATER QUALITY MONITORING REPORT

The contractor will compile and present sampling results in an annual report to the EAA. The report will include an evaluation of analytical data, graphs of results that exceed comparative or regulatory standards, a discussion of water and sediment quality, laboratory reports and field data sheets, photographs, sampling locations and rationale, description of sampling methods, and a description and rationale for any deviations from the Water Quality Sampling Plan due to logistics or safety issues. The report is to be submitted in hard copy and electronically and will be reviewed internally by EAA. The deadline for submittal to the EAA is December 21, 2015.

DATA COMPILATION, ANALYSES AND REPORTING

All of the data collected as a result of the 2015 HCP Water Quality Monitoring Plan will be compiled, and analyzed, and the results will be presented to the Implementing Committee by February 15, 2016; prior to inclusion in the annual EAHCP Annual Report that is required by Sections 6.2.4 and 9.3 of the EAHCP and Section 11.1c of the Implementing Agreement. The report will include an evaluation of all analytical data, including graphs, key photographs and general summary of results.

CHANGES TO WORKPLAN FROM THE 2014 SAMPLING EFFORT

In summary, the workplan has few changes from 2014. Funding is needed to add a single RTI water quality data logger at the downstream end of the sampling area in San Marcos. Funding is also requested for maintenance and replacement needs for existing RTIs, as well as data transmission and web hosting fees. Detail for the RTIs is listed in Appendix C.

A change to the sample interval for sediment samples is included in this workplan. The former sample interval is 0 – 18-inches below surface. For 2015, the sediment sample interval will be 0-3-inches below the surface.

SCIENCE COMMITTEE REVIEW

This 2015 Water Quality Work Plan will reviewed by the EAHCP Science Committee prior to implementation. The Science Committee will be asked to conform the need for the following additions or changes to the Water Quality Work Plan:

- An additional Real Time Instrument for water quality data logging will be added to the downstream end of the San Marcos Springs sampling area in 2015.
- A change to the sample interval for sediment samples from 0 – 18-inches below surface to 0-3-inches below the surface.

BUDGET

Table 7.1 Budget: $200,000

Requested workplan Budget: $504,530

2015 EAHCP Sampling as performed by an outside contractor, annual costs $474,430.00

Real Time Instruments (RTI): $30,100 (see Appendix C)

Justification for Budget Adjustment

The real time water quality data logging instrumentation is in need of funding for maintenance (warranties will expire in 2015), in addition spare instrumentation is needed to prevent extended down time in the event of catastrophic failure. The instruments also require funding for calibration fluids, batteries, and other incidental costs. Funding is also needed for the addition of a downstream San Marcos instrument. Cost details are provided in Appendix C.


Figure 1
Comal Springs Groundwater Sample Locations
N
Spring 7
Spring 3
Spring 1
Scale in Miles
0
0.1
0.2
0.4
Most of the historical EAA sampling records for Comal Springs pertains to the locations known as Spring 1, Spring 3, and Spring 7 (spring vents). Other locations at Comal Springs may have a limited sample record.
Samples are collected monthly during low flow conditions (critical period), and quarterly during normal conditions.
Explanation
Historical Groundwater (Spring) Sample Location
Prepared by:
EDWARDS AQUIFER
AUTHORITY

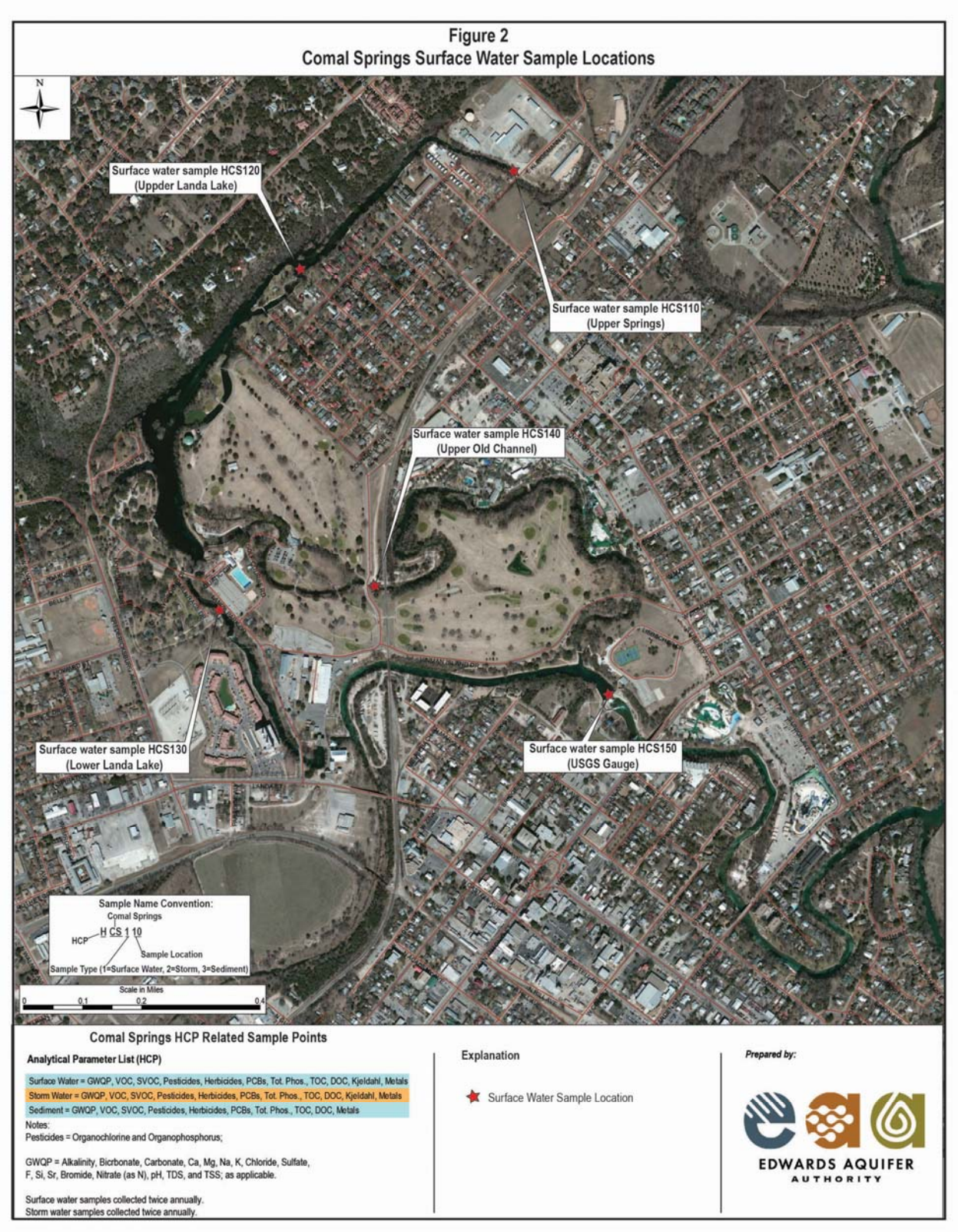


Figure 2
Comal Springs Surface Water Sample Locations
N
Surface water sample HCS120
(Uppder Landa Lake)
Surface water sample HCS110
(Upper Springs)
Surface water sample HCS140
(Upper Old Channel)
Surface water sample HCS130
(Lower Landa Lake)
Surface water sample HCS150
(USGS Gauge)
Sample Name Convention:
Comal Springs
HCP
H CS 1 10
Sample Location
Sample Type (1=Surface Water, 2=Storm, 3=Sediment)
Scale in Miles
0
0.1
0.2
0.4
Comal Springs HCP Related Sample Points
Analytical Parameter List (HCP)
Surface Water = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Kjeldahl, Metals
Storm Water = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Kjeldahl, Metals
Sediment = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Metals
Notes:
Pesticides = Organochlorine and Organophosphorus;
GWQP = Alkalinity, Bicrbonate, Carbonate, Ca, Mg, Na, K, Chloride, Sulfate,
F, Si, Sr, Bromide, Nitrate (as N), pH, TDS, and TSS; as applicable.
Surface water samples collected twice annually.
Storm water samples collected twice annually.
Explanation
Surface Water Sample Location
Prepared by:
EDWARDS AQUIFER
AUTHORITY

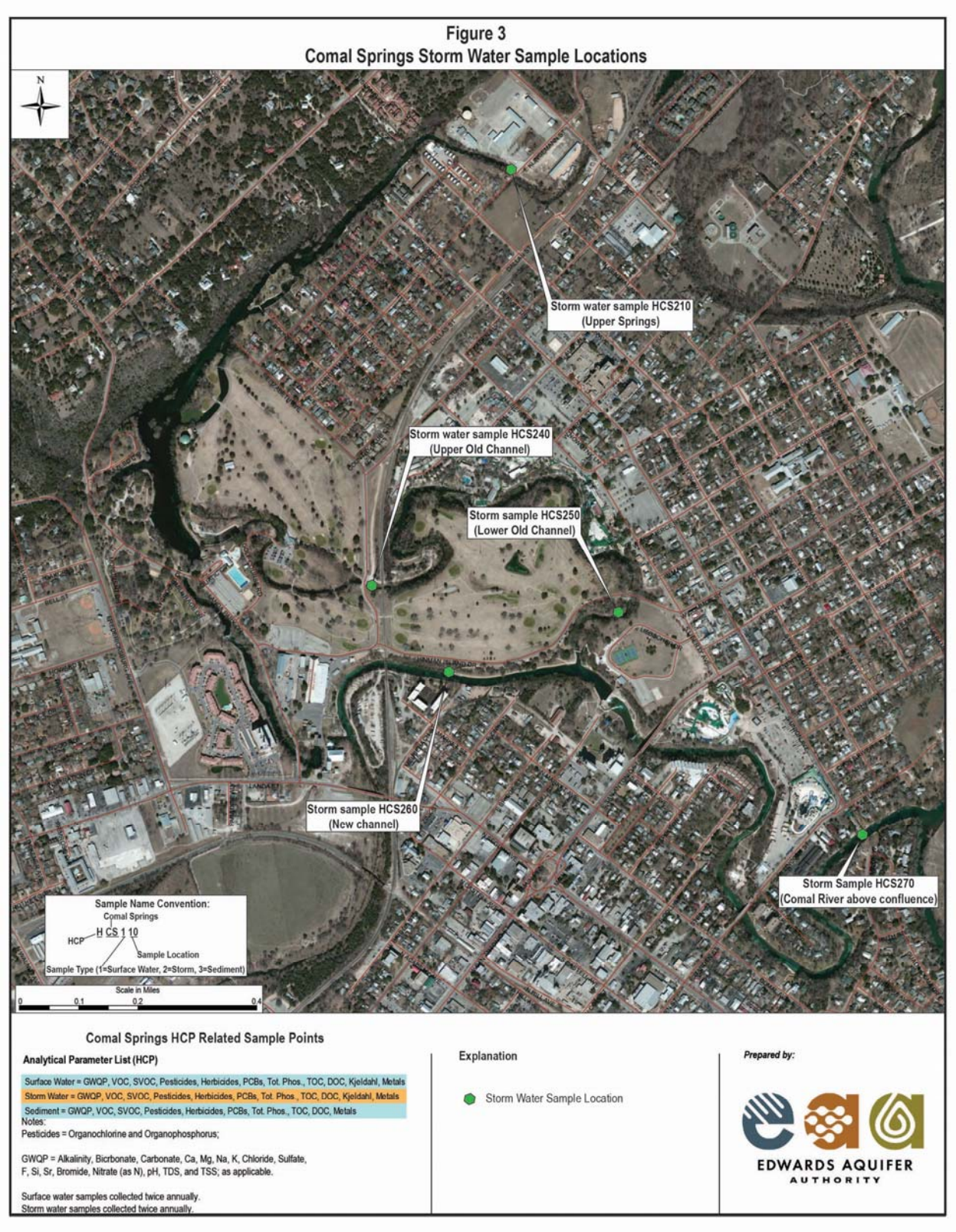


Figure 3
Comal Springs Storm Water Sample Locations
N
Storm water sample HCS210
(Upper Springs)
Storm water sample HCS240
(Upper Old Channel)
Storm sample HCS250
(Lower Old Channel)
Storm sample HCS260
(New channel)
Storm Sample HCS270
(Comal River above confluence)
Sample Name Convention:
Comal Springs
HCP
H CS 1 10
Sample Location
Sample Type (1=Surface Water, 2=Storm, 3=Sediment)
Scale in Miles
0
0.1
0.2
0.4
Comal Springs HCP Related Sample Points
Analytical Parameter List (HCP)
Surface Water = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Kjeldahl, Metals
Storm Water = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Kjeldahl, Metals
Sediment = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Metals
Notes:
Pesticides = Organochlorine and Organophosphorus;
GWQP = Alkalinity, Bicrbonate, Carbonate, Ca, Mg, Na, K, Chloride, Sulfate,
F, Si, Sr, Bromide, Nitrate (as N), pH, TDS, and TSS; as applicable.
Surface water samples collected twice annually.
Storm water samples collected twice annually.
Explanation
Storm Water Sample Location
Prepared by:
EDWARDS AQUIFER
AUTHORITY

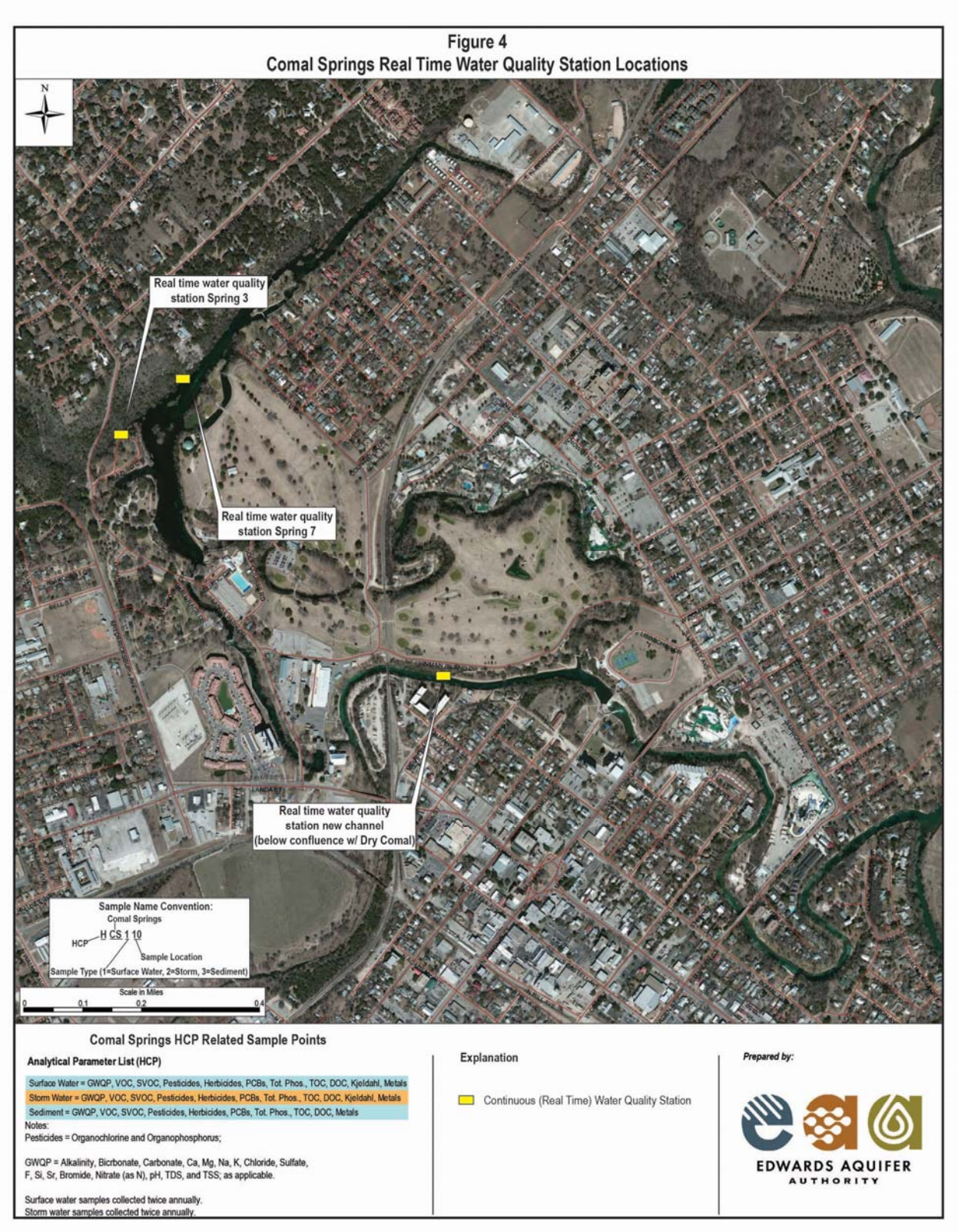


Figure 4
Comal Springs Real Time Water Quality Station Locations
N
Real time water quality station Spring 3
Real time water quality station Spring 7
Real time water quality station new channel (below confluence w/ Dry Comal)
Sample Name Convention:
Comal Springs
H CS 1 10
HCP
Sample Location
Sample Type (1=Surface Water, 2=Storm, 3=Sediment)
Scale in Miles
0 0.1 0.2 0.4
Comal Springs HCP Related Sample Points
Analytical Parameter List (HCP)
Surface Water = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Kjeldahl, Metals
Storm Water = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Kjeldahl, Metals
Sediment = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Metals
Notes:
Pesticides = Organochlorine and Organophosphorus;
GWQP = Alkalinity, Bicrbonate, Carbonate, Ca, Mg, Na, K, Chloride, Sulfate, F, Si, Sr, Bromide, Nitrate (as N), pH, TDS, and TSS; as applicable.
Surface water samples collected twice annually.
Storm water samples collected twice annually.
Explanation
Continuous (Real Time) Water Quality Station
Prepared by:
EDWARDS AQUIFER AUTHORITY

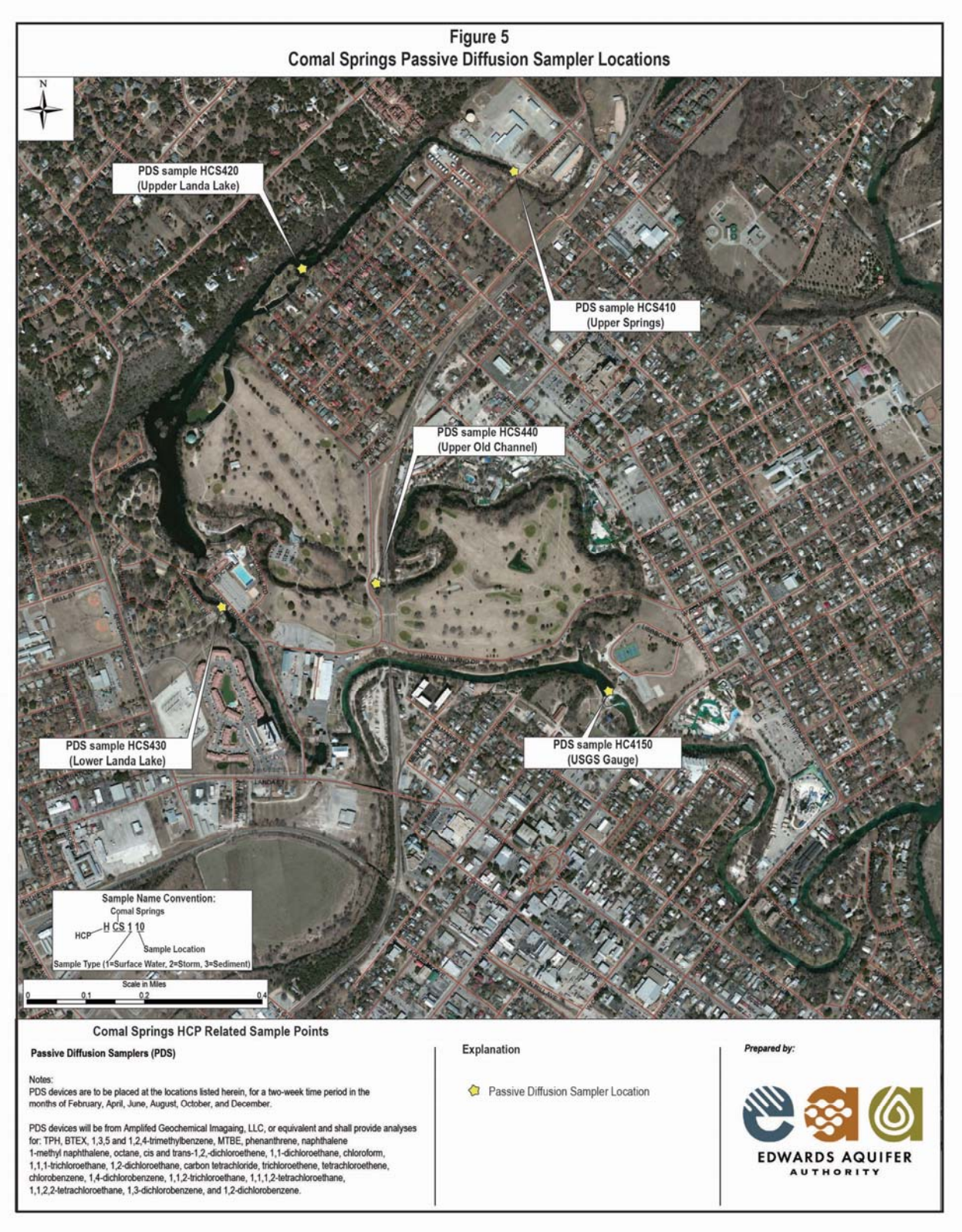


Figure 5
Comal Springs Passive Diffusion Sampler Locations
N
PDS sample HCS420
(Uppder Landa Lake)
PDS sample HCS410
(Upper Springs)
PDS sample HCS440
(Upper Old Channel)
PDS sample HCS430
(Lower Landa Lake)
PDS sample HC4150
(USGS Gauge)
Sample Name Convention:
Comal Springs
HCP
H CS 1 10
Sample Location
Sample Type (1=Surface Water, 2=Storm, 3=Sediment)
Scale in Miles
0
0.1
0.2
0.4
Comal Springs HCP Related Sample Points
Passive Diffusion Samplers (PDS)
Notes:
PDS devices are to be placed at the locations listed herein, for a two-week time period in the months of February, April, June, August, October, and December.
PDS devices will be from Amplifed Geochemical Imagaing, LLC, or equivalent and shall provide analyses for: TPH, BTEX, 1,3,5 and 1,2,4-trimethylbenzene, MTBE, phenanthrene, naphthalene 1-methyl naphthalene, octane, cis and trans-1,2,-dichloroethene, 1,1-dichloroethane, chloroform, 1,1,1-trichloroethane, 1,2-dichloroethane, carbon tetrachloride, trichloroethene, tetrachloroethene, chlorobenzene, 1,4-dichlorobenzene, 1,1,2-trichloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,3-dichlorobenzene, and 1,2-dichlorobenzene.
Explanation
Passive Diffusion Sampler Location
Prepared by:
EDWARDS AQUIFER
AUTHORITY

Figure 6
San Marcos Springs Groundwater Sample Locations

Most of the historical EAA sampling records for San Marcos Springs pertains to the locations known as Hotel and Deep (spring vents). Other locations at San Marcos Springs may have a limited sample record.

Samples are collected monthly during low flow conditions (critical period), and quarterly during normal conditions.

Explanation

★ Historical Groundwater (Spring) Sample Location

Prepared by:

EDWARDS AQUIFER AUTHORITY

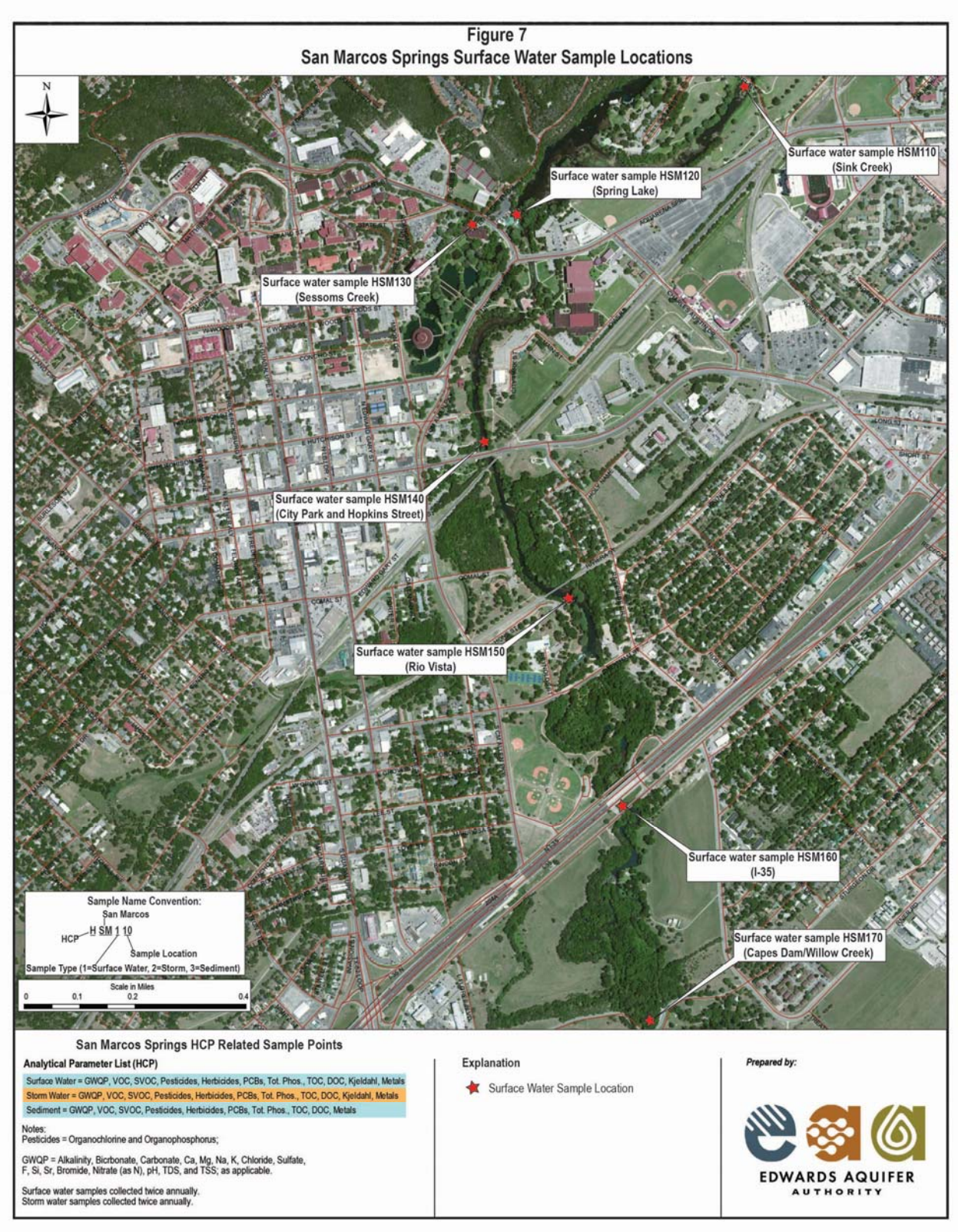


Figure 7
San Marcos Springs Surface Water Sample Locations
N
Surface water sample HSM110 (Sink Creek)
Surface water sample HSM120 (Spring Lake)
Surface water sample HSM130 (Sessoms Creek)
Surface water sample HSM140 (City Park and Hopkins Street)
Surface water sample HSM150 (Rio Vista)
Surface water sample HSM160 (I-35)
Surface water sample HSM170 (Capes Dam/Willow Creek)
Sample Name Convention:
San Marcos
HCP
H SM 1 10
Sample Location
Sample Type (1=Surface Water, 2=Storm, 3=Sediment)
Scale in Miles
0 0.1 0.2 0.4
San Marcos Springs HCP Related Sample Points
Analytical Parameter List (HCP)
Surface Water = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Kjeldahl, Metals
Storm Water = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Kjeldahl, Metals
Sediment = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Metals
Notes:
Pesticides = Organochlorine and Organophosphorus;
GWQP = Alkalinity, Bicrbonate, Carbonate, Ca, Mg, Na, K, Chloride, Sulfate, F, Si, Sr, Bromide, Nitrate (as N), pH, TDS, and TSS; as applicable.
Surface water samples collected twice annually.
Storm water samples collected twice annually.
Explanation
Surface Water Sample Location
Prepared by:
EDWARDS AQUIFER AUTHORITY

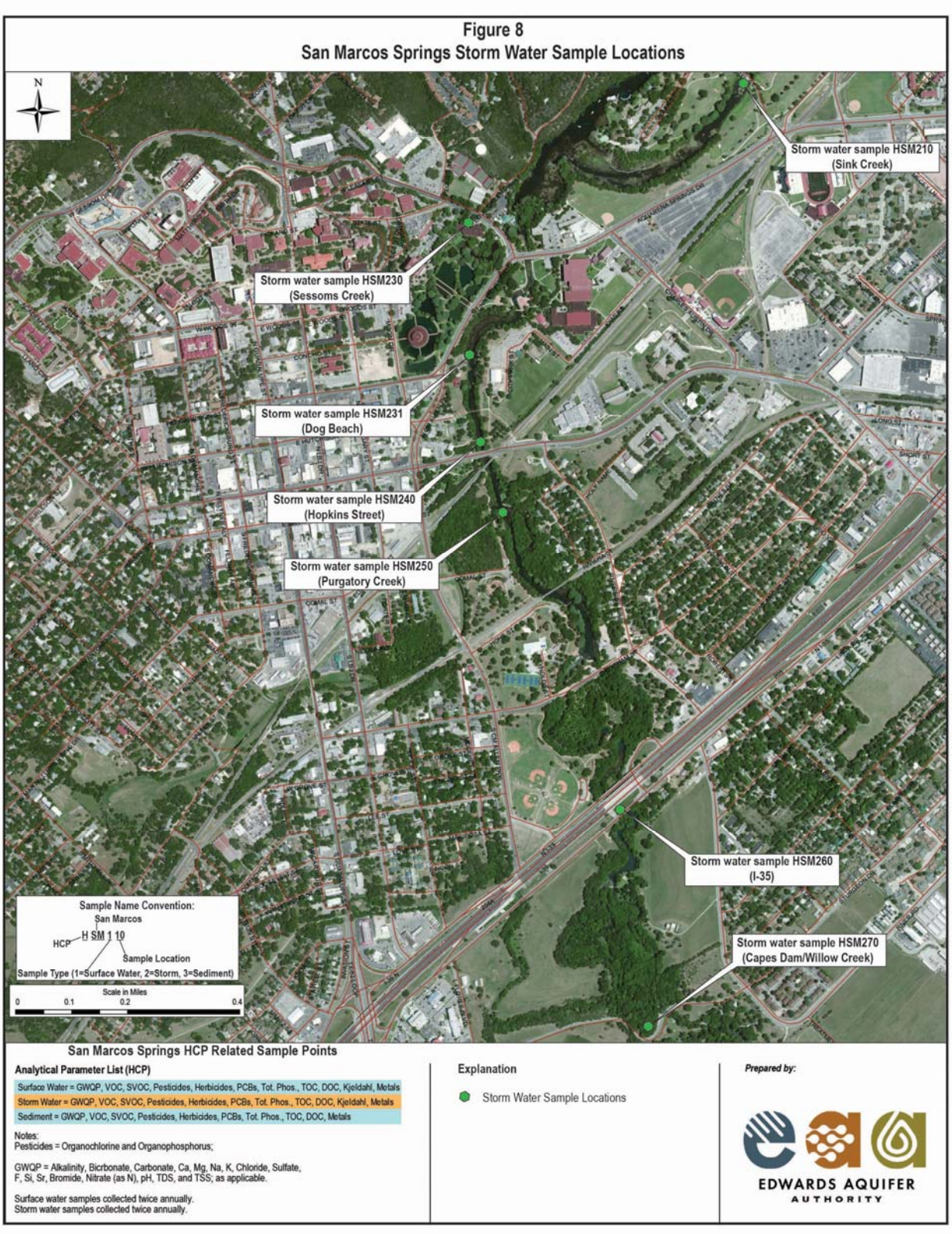
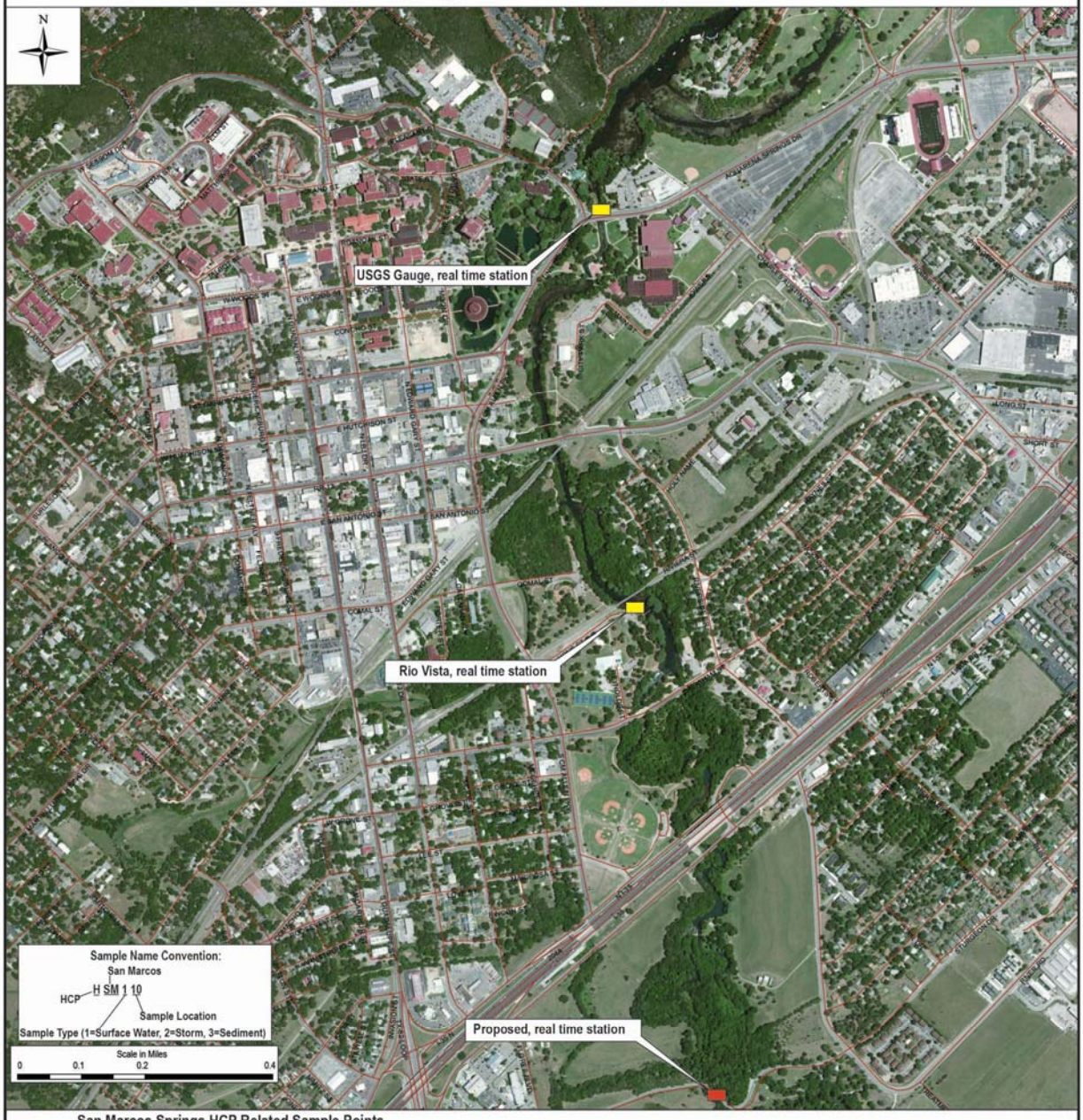


Figure 8
San Marcos Springs Storm Water Sample Locations
N
Storm water sample HSM210 (Sink Creek)
Storm water sample HSM230 (Sessoms Creek)
Storm water sample HSM231 (Dog Beach)
Storm water sample HSM240 (Hopkins Street)
Storm water sample HSM250 (Purgatory Creek)
Storm water sample HSM260 (I-35)
Storm water sample HSM270 (Capes Dam/Willow Creek)
Sample Name Convention:
San Marcos
HCP
H SM 1 10
Sample Location
Sample Type (1=Surface Water, 2=Storm, 3=Sediment)
Scale in Miles
0 0.1 0.2 0.4
San Marcos Springs HCP Related Sample Points
Analytical Parameter List (HCP)
Surface Water = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Kjeldahl, Metals
Storm Water = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Kjeldahl, Metals
Sediment = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Metals
Notes:
Pesticides = Organochlorine and Organophosphorus;
GWQP = Alkalinity, Bicrbonate, Carbonate, Ca, Mg, Na, K, Chloride, Sulfate, F, Si, Sr, Bromide, Nitrate (as N), pH, TDS, and TSS; as applicable.
Surface water samples collected twice annually.
Storm water samples collected twice annually.
Explanation
Storm Water Sample Locations
Prepared by:
EDWARDS AQUIFER AUTHORITY

Figure 9
San Marcos Springs Real Time Water Quality Station Locations



San Marcos Springs HCP Related Sample Points

Analytical Parameter List (HCP)

Surface Water = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Kjeldahl, Metals
Storm Water = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Kjeldahl, Metals
Sediment = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Metals

Notes:
Pesticides = Organochlorine and Organophosphorus;

GWQP = Alkalinity, Bicrbonate, Carbonate, Ca, Mg, Na, K, Chloride, Sulfate, F, Si, Sr, Bromide, Nitrate (as N), pH, TDS, and TSS; as applicable.

Surface water samples collected twice annually.
Storm water samples collected twice annually.

Explanation

Continuous (Real Time) Water Quality Station Location

Proposed Continuous (Real Time) Water Quality Station Location for Addition in 2015

Prepared by:

EDWARDS AQUIFER AUTHORITY

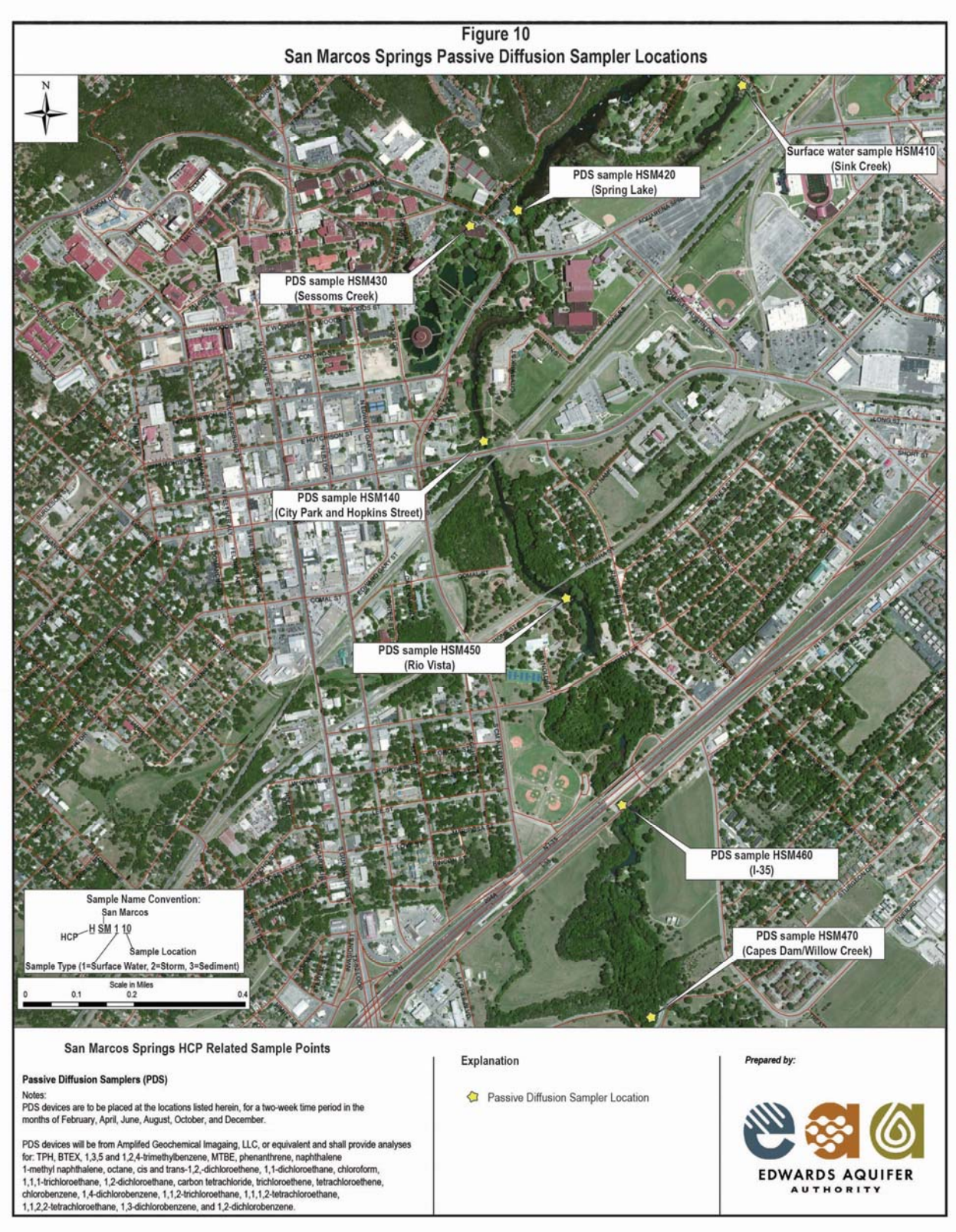


Figure 10
San Marcos Springs Passive Diffusion Sampler Locations
N
Surface water sample HSM410 (Sink Creek)
PDS sample HSM420 (Spring Lake)
PDS sample HSM430 (Sessoms Creek)
PDS sample HSM140 (City Park and Hopkins Street)
PDS sample HSM450 (Rio Vista)
PDS sample HSM460 (I-35)
PDS sample HSM470 (Capes Dam/Willow Creek)
Sample Name Convention:
San Marcos
HCP
H SM 1 10
Sample Location
Sample Type (1=Surface Water, 2=Storm, 3=Sediment)
Scale in Miles
0 0.1 0.2 0.4
San Marcos Springs HCP Related Sample Points
Passive Diffusion Samplers (PDS)
Notes:
PDS devices are to be placed at the locations listed herein, for a two-week time period in the months of February, April, June, August, October, and December.
PDS devices will be from Amplifed Geochemical Imagaing, LLC, or equivalent and shall provide analyses for: TPH, BTEX, 1,3,5 and 1,2,4-trimethylbenzene, MTBE, phenanthrene, naphthalene 1-methyl naphthalene, octane, cis and trans-1,2,-dichloroethene, 1,1-dichloroethane, chloroform, 1,1,1-trichloroethane, 1,2-dichloroethane, carbon tetrachloride, trichloroethene, tetrachloroethene, chlorobenzene, 1,4-dichlorobenzene, 1,1,2-trichloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,3-dichlorobenzene, and 1,2-dichlorobenzene.
Explanation
Passive Diffusion Sampler Location
Prepared by:
EDWARDS AQUIFER AUTHORITY

Appendix A

Analytical Parameters for Assessing Water Quality from Storm Water and Surface Water Locations, Comal and San Marcos Springs

Analyses
Volatile Organic Compounds (VOCs)
Semi-volatile Organic Compounds (SVOCs)
Organochlorine Pesticides
Polychlorinated Biphenyls (PCBs)
Organophosphorous Pesticides
Herbicides
Metals (Al, Sb, As, Ba, Be, Cd, Cr (total), Cu, Fe, Pb, Mn, Hg, Ni, Se, Ag, Tl, and Zn)
General Chemistry (GWQP) Total Alkalinity (as CaCO3), Bicarbonate Alkalinity (as CaCO3), Carbonate Alkalinity (as CaCO3); (Cl, Br, NO_3, SO_4, Fl, pH, TDS, TSS, Ca, Mg, Na, K, Si, Sr, CO_3,)), and Total Suspended Solids (TSS).
Phosphorus (total)
Total Organic Carbon (TOC),
Dissolved Organic Carbon (DOC)
Kjeldahl Nitrogen
Bacteria Testing (*E coli*)
Caffeine

Method	**Method Description**	**Protocol**
8260B	Volatile Organic Compounds	(GC/MS) SW846
8270C	Semivolatile Organic Compounds	(GC/MS) SW846
8081B	Organochlorine Pesticides	(GC) SW846
8082A	Polychlorinated Biphenyls (PCBs)	by Gas Chromatography SW846
8141A	Organophosphorous Pesticides	(GC) SW846
8151A	Herbicides	(GC) SW846
6010B	Metals	(ICP) SW846
6020	Metals	(ICP/MS) SW846
7470A	Mercury	(CVAA) SW846
300.0	Anions,	Ion Chromatography
340.2	Fluoride	MCAWW
365.4	Phosphorus,	Total EPA
9040C	pH	SW846
9060	Organic Carbon,	Total (TOC) SW846
SM 2320B	Alkalinity	SM
SM 2540C	Solids,	Total Dissolved (TDS) SM
SM 2540D	Solids, Total Suspended (TSS)	SM
351.2	Nitrogen, Total Kjeldahl	MCAWW
1694	Caffeine	

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Number of required QA/QC Samples for Surface (Base Flow) Sampling, Storm Sampling, and Sediment Sampling

QA/QC Samples (Dupes/EQ Blanks)	Equip. Blanks	Dupes	Total
Comal Surface Water=	2	2	4
San Marcos Surface Water=	2	2	4
Comal Storm Water=	2	4	6
San Marcos Storm Water=	2	6	8
Comal Sediments=	1	1	2
San Marcos Sediments=	1	1	2
Total Costs QA/QC Samples	**10**	**16**	**26**

Analytical Parameters for Critical Period Related (Low Flow) Sampling of Water Wells, Comal and San Marcos Springs

Analyses
General Chemistry (GWQP) Total Alkalinity (as CaCO3), Bicarbonate Alkalinity (as CaCO3), Carbonate Alkalinity (as CaCO3); (Cl, Br, NO_3, SO_4, Fl, pH, TDS, TSS, Ca, Mg, Na, K, Si, Sr, CO_3,)
Total Organic Carbon (TOC)
Total Dissolved Solids (TDS)

Analytical Parameters for Passive Diffusion Samplers, Comal and San Marcos Springs

PDS devices are to be placed at the locations listed Figures 5 and 10, for a two-week time period in the months of February, April, June, August, October, and December.
PDS devices will be from Amplifed Geochemical Imagaing, LLC, or equivalent and shall provide analyses for the following: TPH, BTEX, 1,3,5 and 1,2,4-trimethylbenzene, MTBE, phenanthrene, naphthalene1-methyl naphthalene, octane, cis and trans-1,2,-dichloroethene, 1,1-dichloroethane, chloroform, 1,1,1-trichloroethane, 1,2-dichloroethane, carbon tetrachloride, trichloroethene, tetrachloroethene, chlorobenzene, 1,4-dichlorobenzene, 1,1,2-trichloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,3-dichlorobenzene, and 1,2-dichlorobenzene.

Appendix B

Analytical Parameters for Assessing Water Quality from Sediment Sample Locations, Comal and San Marcos Springs

Analyses
Volatile Organic Compounds (VOCs)
Semi-volatile Organic Compounds (SVOCs)
Organochlorine Pesticides
Polychlorinated Biphenyls (PCBs)
Organophosphorous Pesticides
Herbicides
Metals (Al, Sb, As, Ba, Be, Cd, Cr (total), Cu, Fe, Pb, Mn, Hg, Ni, Se, Ag, Tl, and Zn)
General Chemistry Total Alkalinity (as CaCO3), Bicarbonate Alkalinity (as CaCO3), Carbonate Alkalinity (as CaCO3); Ca, Mg, Na, K, Chloride, Sulfate,
Phosphorus (total)
Total Organic Carbon (TOC),
Dissolved Organic Carbon (DOC)
Bacteria Testing (*E coli*)

Method	**Method Description**	**Protocol**
8260B	Volatile Organic Compounds	(GC/MS) SW846
8270C	Semivolatile Organic Compounds	(GC/MS) SW846
8081B	Organochlorine Pesticides	(GC) SW846
8082A	Polychlorinated Biphenyls (PCBs)	by Gas Chromatography SW846
8141A	Organophosphorous Pesticides	(GC) SW846
8151A	Herbicides	(GC) SW846
6010B	Metals	(ICP) SW846
6020	Metals	(ICP/MS) SW846
7470A	Mercury	(CVAA) SW846
300.0	Anions,	Ion Chromatography
340.2	Fluoride	MCAWW
365.4	Phosphorus,	Total EPA
9040C	pH	SW846
9060	Organic Carbon,	Total (TOC) SW846
SM 2320B	Alkalinity	SM
SM 2540C	Solids,	Total Dissolved (TDS) SM
SM 2540D	Solids, Total Suspended (TSS)	SM

Protocol References:
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Appendix C

Estimated Costs for Addition of a Real Time Water Quality Monitoring Instrument at San Marcos Springs, and Ongoing Costs for Operation and Maintenance.

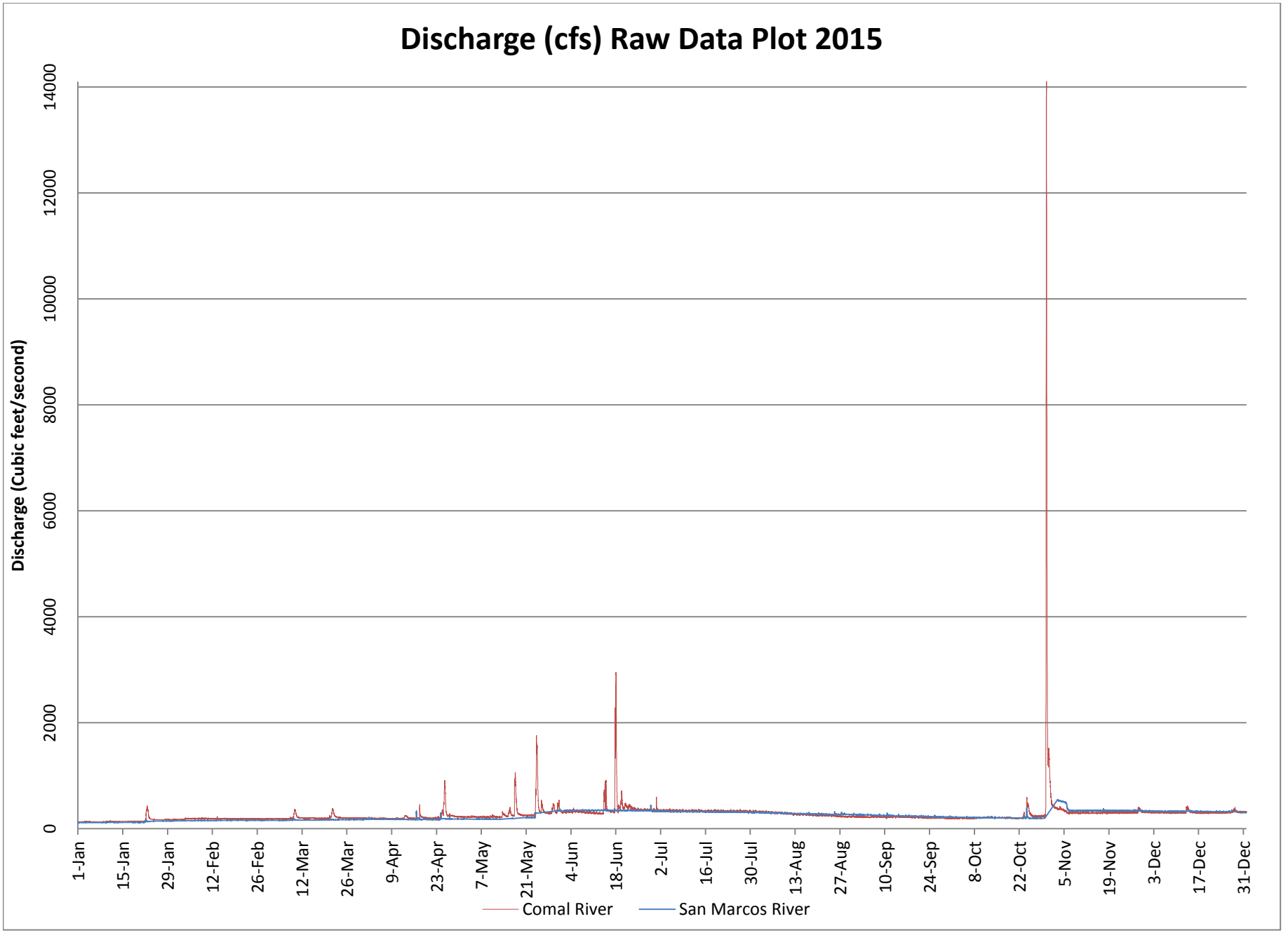
Three new Eueka, Manta 2 Probe, equipped to monitor: DO, pH, Temperature, Conductivity, and Turbidity with Associated Netronix Telemetry System.	$6,000.00 each for a total of $18,000
Annual maintenance costs for equipment, to include batteries (as needed), repairs, and calibration standards (estimated costs are for six total instruments, which includes the proposed new addition in San Marcos)*	$6,000.00
Annual data contract to include cellular data fees, and web hosting at Netronix site (estimated costs are for six total instruments, which includes the proposed new addition in San Marcos)	$5,100.00
Installation costs for proposed new unit to be located on the San Marcos system	$1,000.00
Total Estimated Costs for Real Time Water Quality Instrumentation calendar year 2015	**$30,100.00**

**Instrument warranties expires in 2015, extra funding needs to be earmarked for potential repairs.*

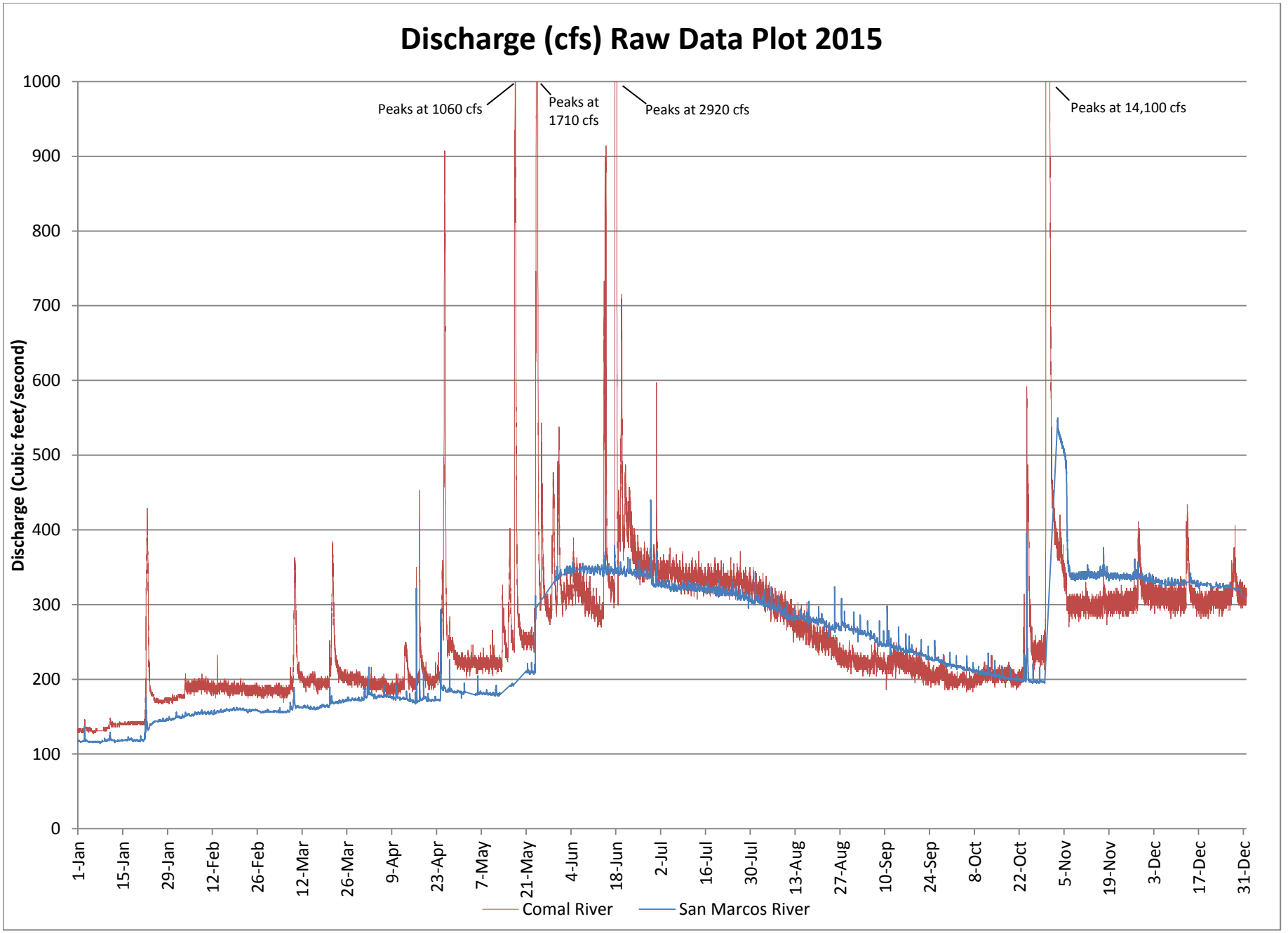
APPENDIX B

SPRING HYDROGRAPHS AND STORM WATER QUALITY GRAPHS

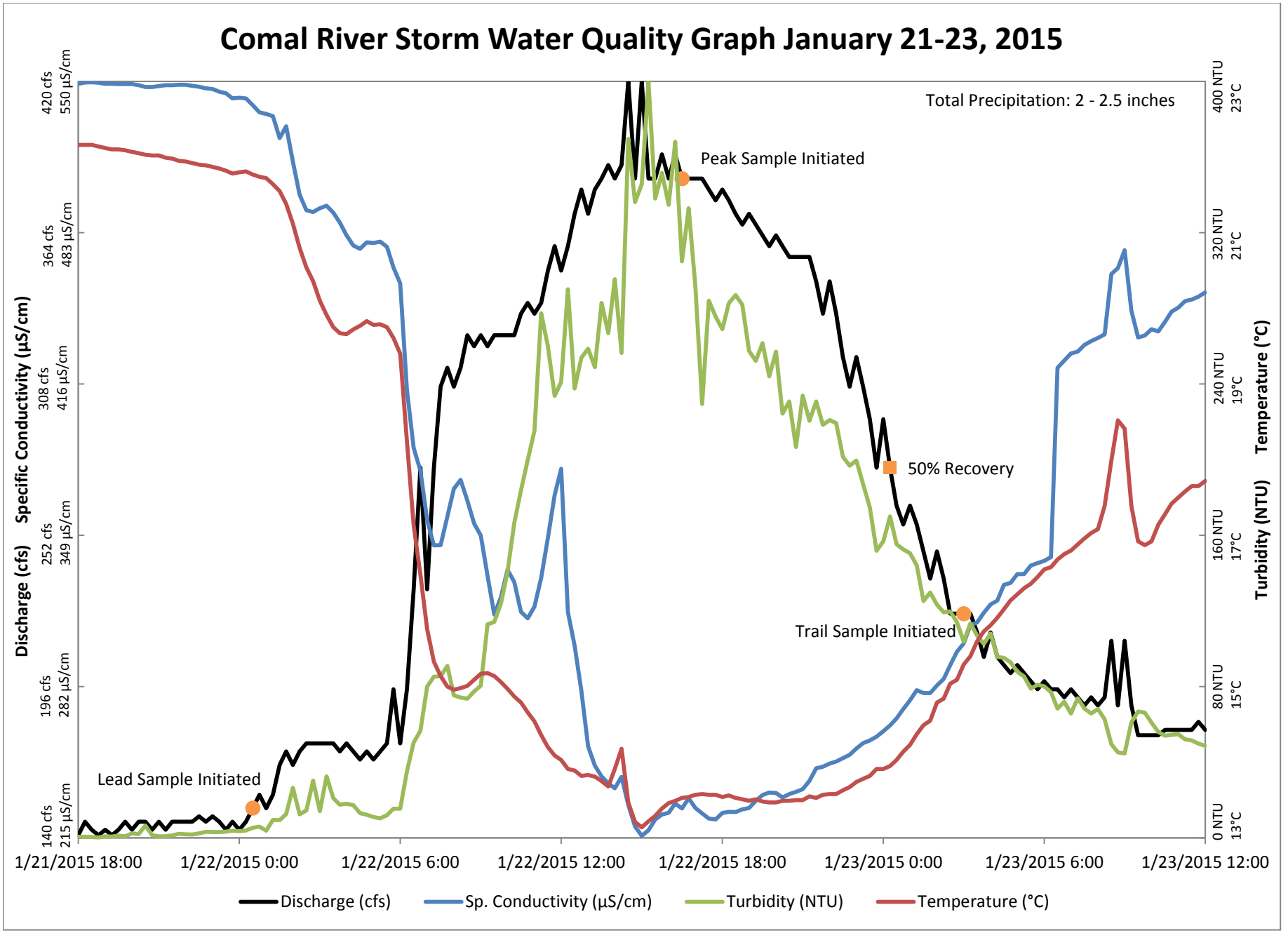
Discharge (cfs) Raw Data Plot 2015



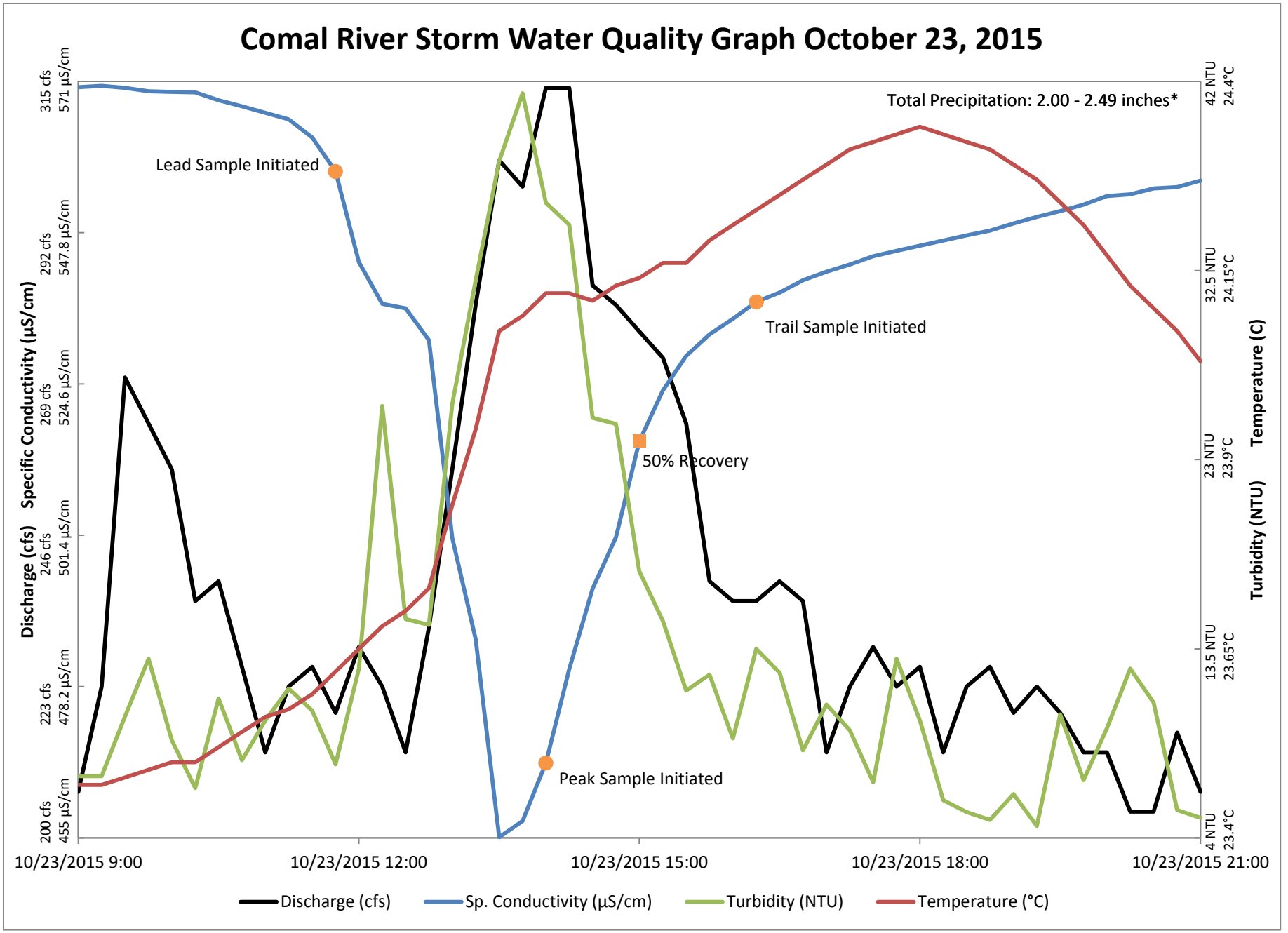
Data Source: USGS 2015



Data Source: USGS 2015

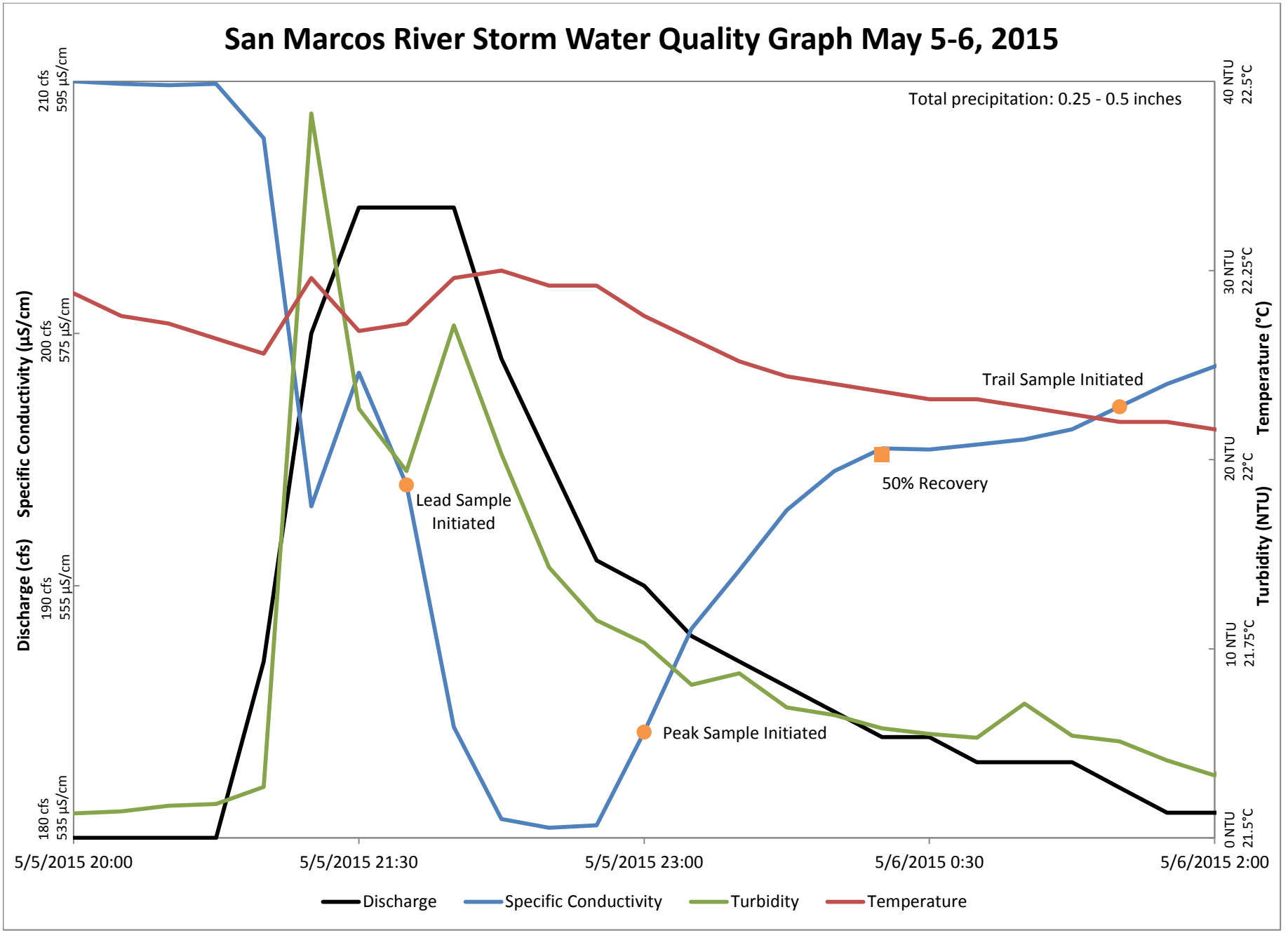


Data Source: Environet 2015, USGS 2015

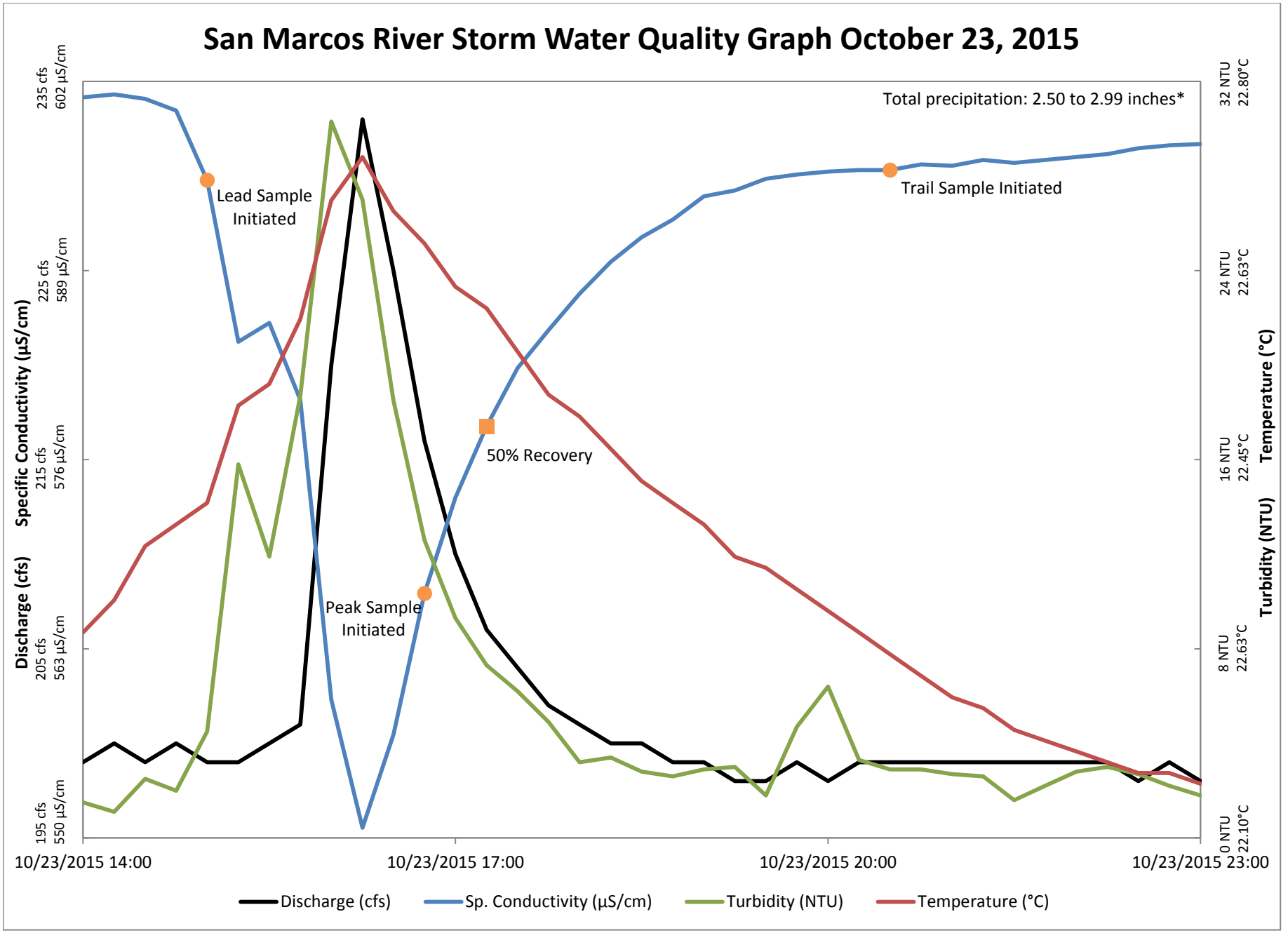


*2.00-2.49 inches total precipitation over 24 hour period according to NOAA. Sampling occured during first pulse of storm , which might have totaled approximately 1 inch.

Data Source: Environet 2015, USGS 2015



Data Source: Environet 2015, USGS 2015



*2.50-2.99 inches total precipitation over 24 hour period according to NOAA. Sampling occured during first pulse of storm , which might have totaled approximately 1 inch.

Data Source: Environet 2015, USGS 2015

APPENDIX C

DISCUSSION OF DEVIATIONS

Appendix C Discussion of Deviations

Comal Springs

Surface Water

Surface water was collected in the Comal Springs complex in March and September 2015. Surface water sampling locations did not deviate from the EAHCP Workplan.

March 16, 2015 and September 9, 2015, Collection

In accordance with the Workplan, filtration for metals and alkalinity samples was performed in the field using disposable bailers. Alkalinity analysis was performed at the SWCA office in San Antonio. Because the hold-time for pH analysis is only 15 minutes, laboratory analysis of pH was performed outside of hold time, but pH was measured in the field as part of the water quality parameter data set.

Stormwater

Stormwater events were sampled January 22–23 and October 23, 2015, in the Comal Springs complex. The ongoing drought made storm water sampling exceedingly difficult to perform. Rain events were generally scattered in nature and often too small in magnitude to generate sufficient runoff to sample. Storm water sampling locations did not deviate from those proposed in the EAHCP Workplan.

January 22–23, 2015, Event

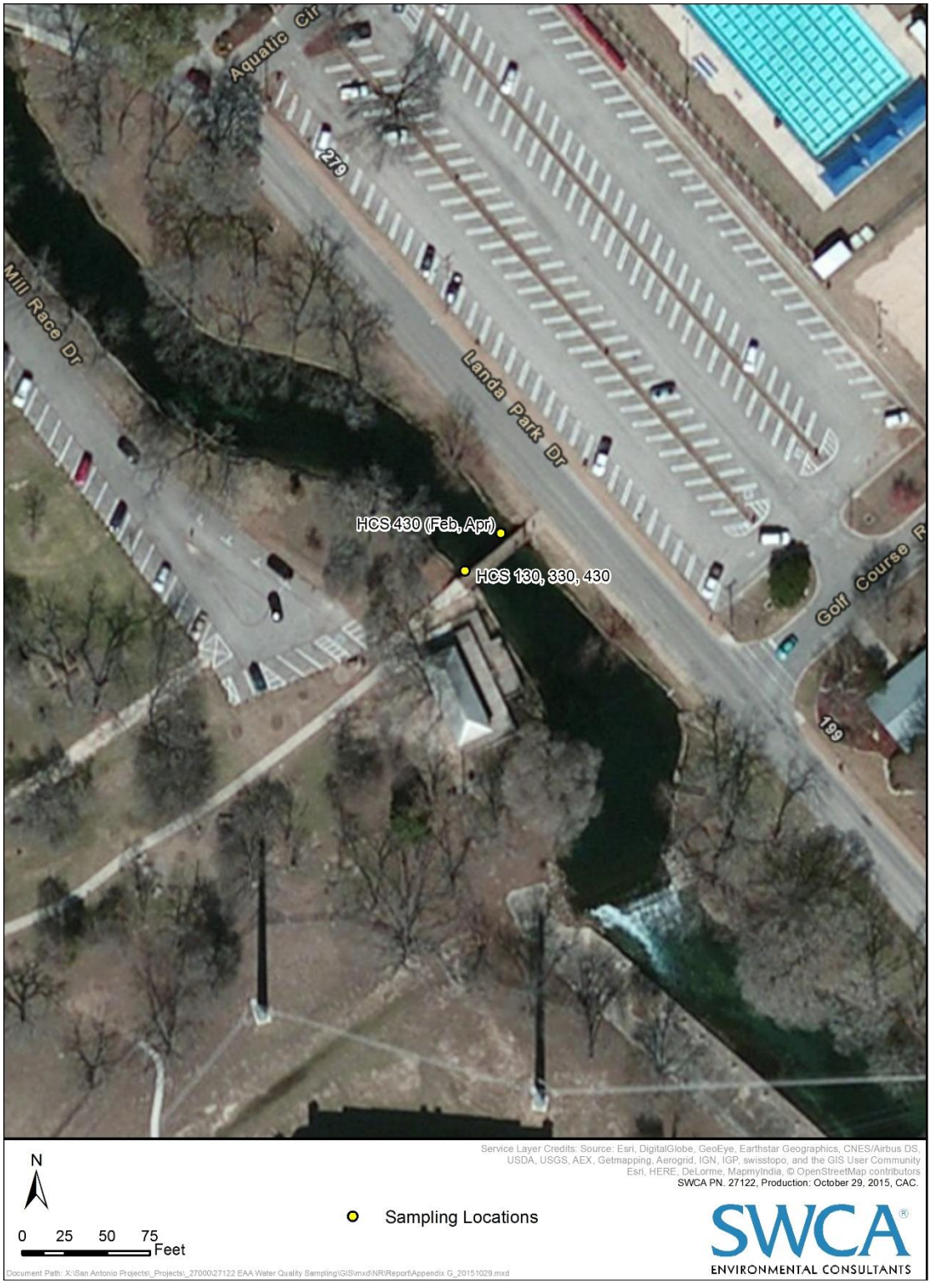
Lead sample collection began at approximately 0:30 on January 22, 2015 making it impossible for *E. coli* samples to reach the laboratory within the 6-hour hold time. Lead samples were submitted when the San Antonio River Authority (SARA) laboratory opened on the morning of January 22, 2015. The peak occurred at approximately 16:30 on January 22, 2015, also making it impossible for *E. coli* samples to reach the laboratory within the 6-hour hold time. Peak samples were submitted when the SARA laboratory opened on the morning of January 23, 2015. Trail samples were collected and delivered to the laboratory on January 23, 2015, within hold time. Because the hold-time for pH analysis is only 15 minutes, laboratory analysis of pH was performed outside of hold time, but pH was measured in the field as part of the water quality parameter data set.

Sediments

Sediment samples were collected from the Comal Springs complex on June 4, 2015. The EAHCP Workplan designated sediment collection sites to coincide with surface water collection points but allowed for some deviation from these locations as field conditions dictated. Sediment samples were collected more than 30 feet from surface water collection points due to limited amounts of available sediment at the surface water locations at HCS340 and HCS360. Sediment collection location deviations are discussed below.

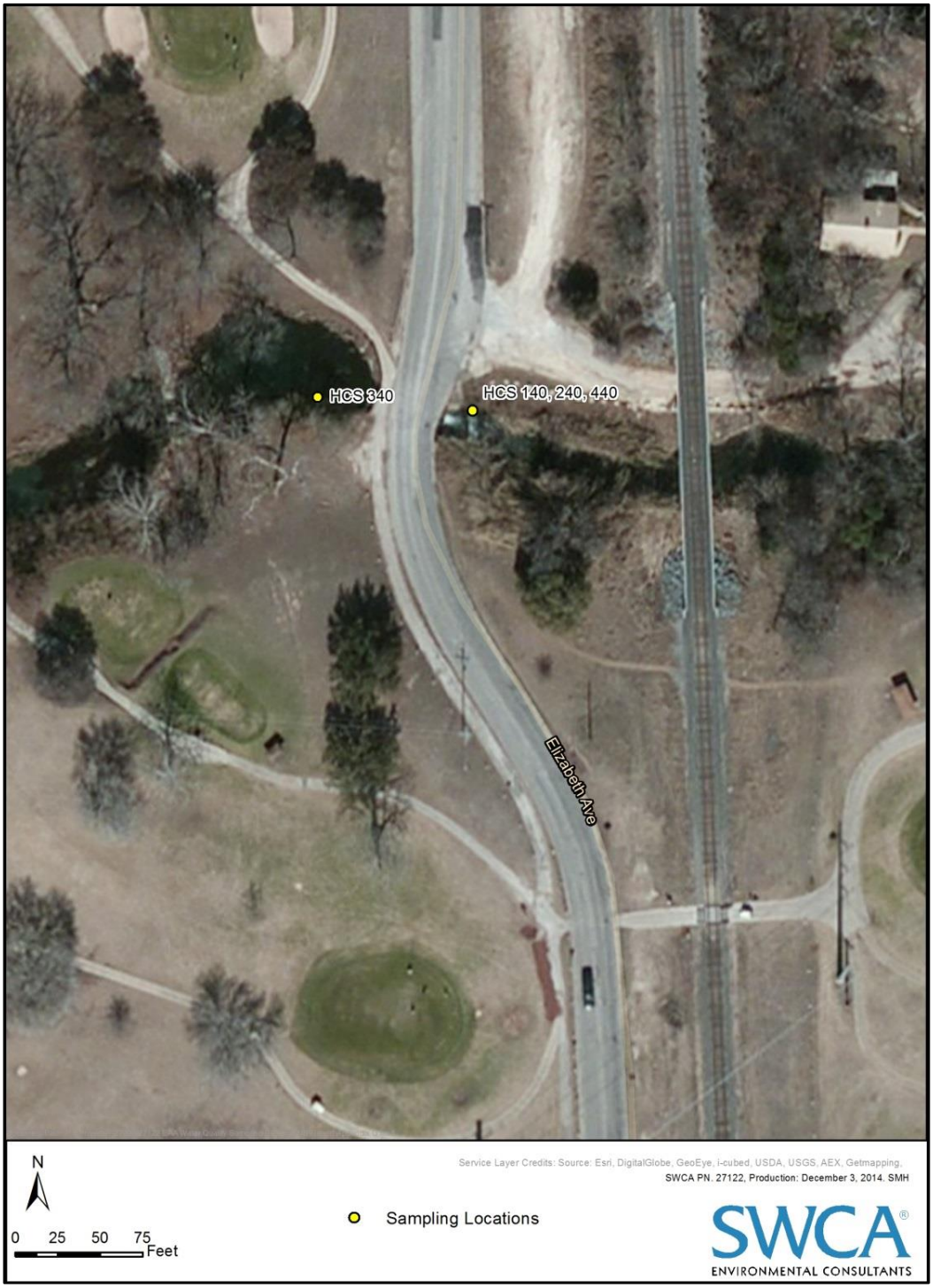
HCS330

This sediment sample was collected at the surface water location. Due to river depth, this sample was collected utilizing the core sampler.



HCS340

Surface water samples are collected from the eastern side of Elizabeth Avenue at this sample site, however the substrate in this area is very rocky with a strong current and little to no sediment. Sediment samples were collected upstream on the western side of Elizabeth Avenue, approximately 30 feet from the road. Sediment was collected approximately 10 feet from the southern shore.



HCS360

Surface water collection occurred on the upstream side of the bridge near the western bank at this location. Sediment was collected on the upstream side of the bridge approximately 12 feet from the eastern bank due to high river depth and limited available sediment near the surface water location. A field duplicate was also collected in the same location.

Passive Diffusion Samplers

Passive diffusion samplers (PDSs) were deployed at each of the surface water sample collection sites. When at all possible, deployment locations coincided with the surface water locations. Some adjustments had to be made to account for river depth, accessibility by SWCA staff for installation and retrieval, and interference by the public. PDSs were deployed for two-week periods during the months of February, April, June, August, and October 2015.

Storm events did occur during some PDS deployment periods, which may affect the analytes present in PDS results. Rain events large enough to cause an increase in discharge at the USGS Streamflow gauge in the Comal River occurred during PDS deployments on February 13, April 16, April 17, and June 14–15. Heavy rains and flooding occurred the week prior to the June 2015 deployment, discharge rates were higher throughout the deployment period than 2015 levels prior to June.

Any alterations to sample locations or lost PDS are discussed below.

<u>HCS430</u>

February 2015 – Bank stabilization construction continued from 2014 at site HCS430. PDS device deployed from Eastern bank of river.

April 2015 – Construction finished, however Western bank still inaccessible due to erosion protection measures, PDS device deployed from Eastern bank of river.

June 2015 – All construction and bank access restrictions had been cleared. PDS device was deployed from the Western bank of river, underneath a bridge to limit visibility to the public. This remained the normal deployment location for the remainder of 2015.

<u>HCS460</u>

April 2015 – PDS not recovered. The sample area was searched thoroughly but no sign of the deployment device or sampler was observed.

San Marcos

Surface water

Surface water was collected in the San Marcos Springs complex in March and September 2015. Surface water sampling locations did not deviate from the EAHCP Workplan. Because the hold time for pH analysis is only 15 minutes, laboratory analysis of pH was performed outside of the hold time. However, pH was measured in the field as part of the water quality parameter data set. In accordance with the Workplan, filtration for metals and alkalinity samples was performed in the field using disposable bailers. Alkalinity analysis was performed at the SWCA office in San Antonio.

Stormwater

Stormwater events were sampled May 5–6 and October 23, 2015, in the San Marcos Springs complex. Stormwater sampling locations did not deviate from those proposed in the EAHCP Workplan.

May 5–6, 2015, Event

All sample collection occurred outside of SARA laboratory operating hours making it impossible for the *E. coli* samples to reach the laboratory within the 6-hour hold time. All samples were submitted when the San Antonio River Authority (SARA) laboratory opened on the morning of May 6, 2015. SVOC analysis was not performed for FDHSM230 Trail, the bottle holding the sample for this analysis was broken in transit after sample collection. Because the hold-time for pH analysis is only 15 minutes, laboratory analysis of pH was performed outside of hold time. However, pH was measured in the field as part of the water quality parameter data set.

October 23, 2015, Event

Information will be added for the October event in the final draft of this report.

Sediment

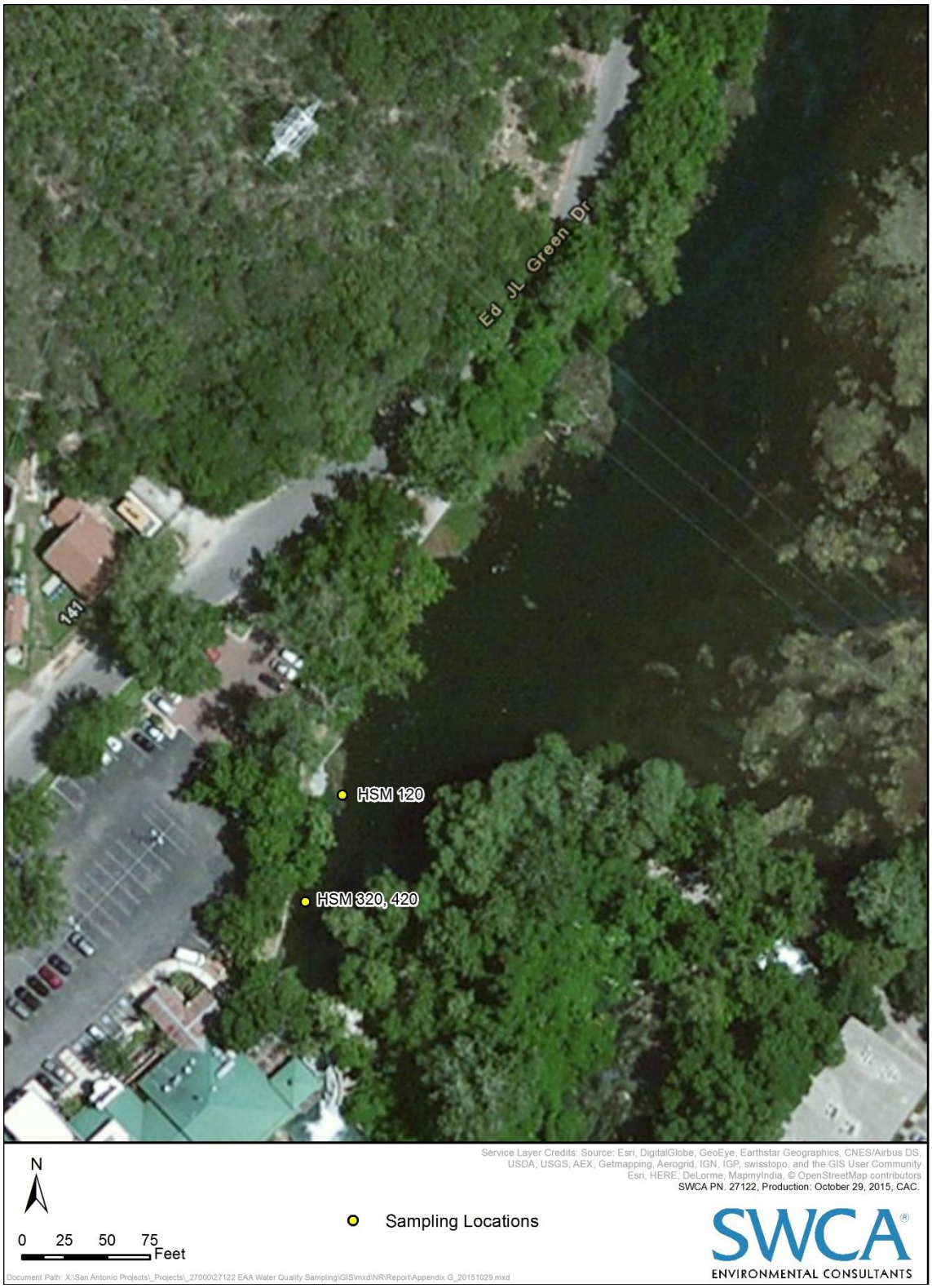
Sediment samples were collected from the San Marcos Springs complex June 5, 2015. The EAHCP Workplan designated sediment collection sites to coincide with surface water collection points but allowed for some deviation from these locations as field conditions dictated. Sediment samples were collected more than 30 feet from surface water collection points due to limited amounts of available sediment and river depth at HSM310, HSM340, HSM350 and HSM370. Sediment collection location deviations are discussed below.

HSM310

Surface water samples were collected from the center of the downstream side of the West Laurel Street bridge. The bottom of this area has many large rocks and little exposed sediment. Sediment samples were collected approximately 6 feet upstream of the bridge, approximately 5 feet from the eastern bank.

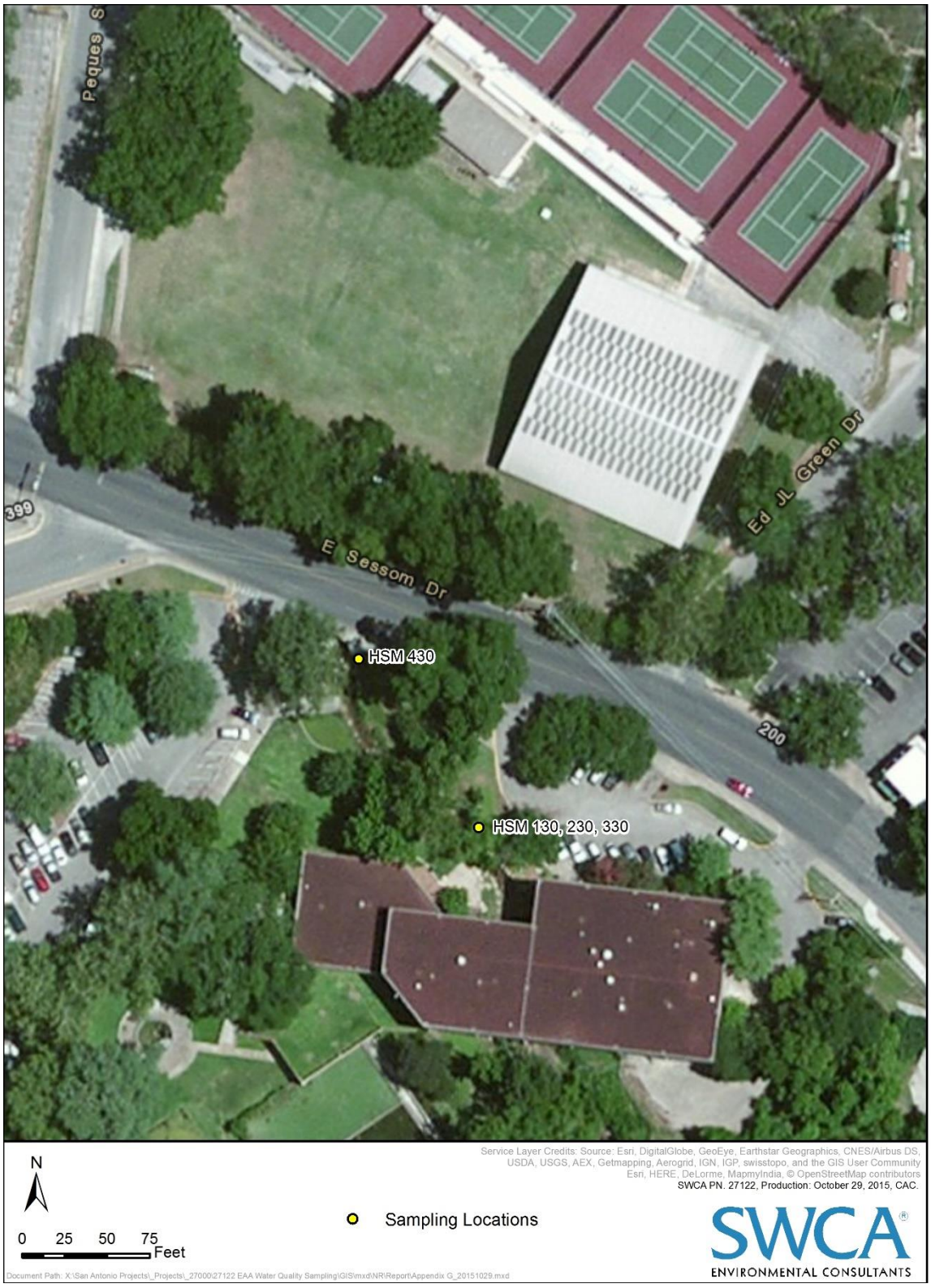
HSM320

No sediment location deviation.



HSM330

No sediment location deviation.



HSM340

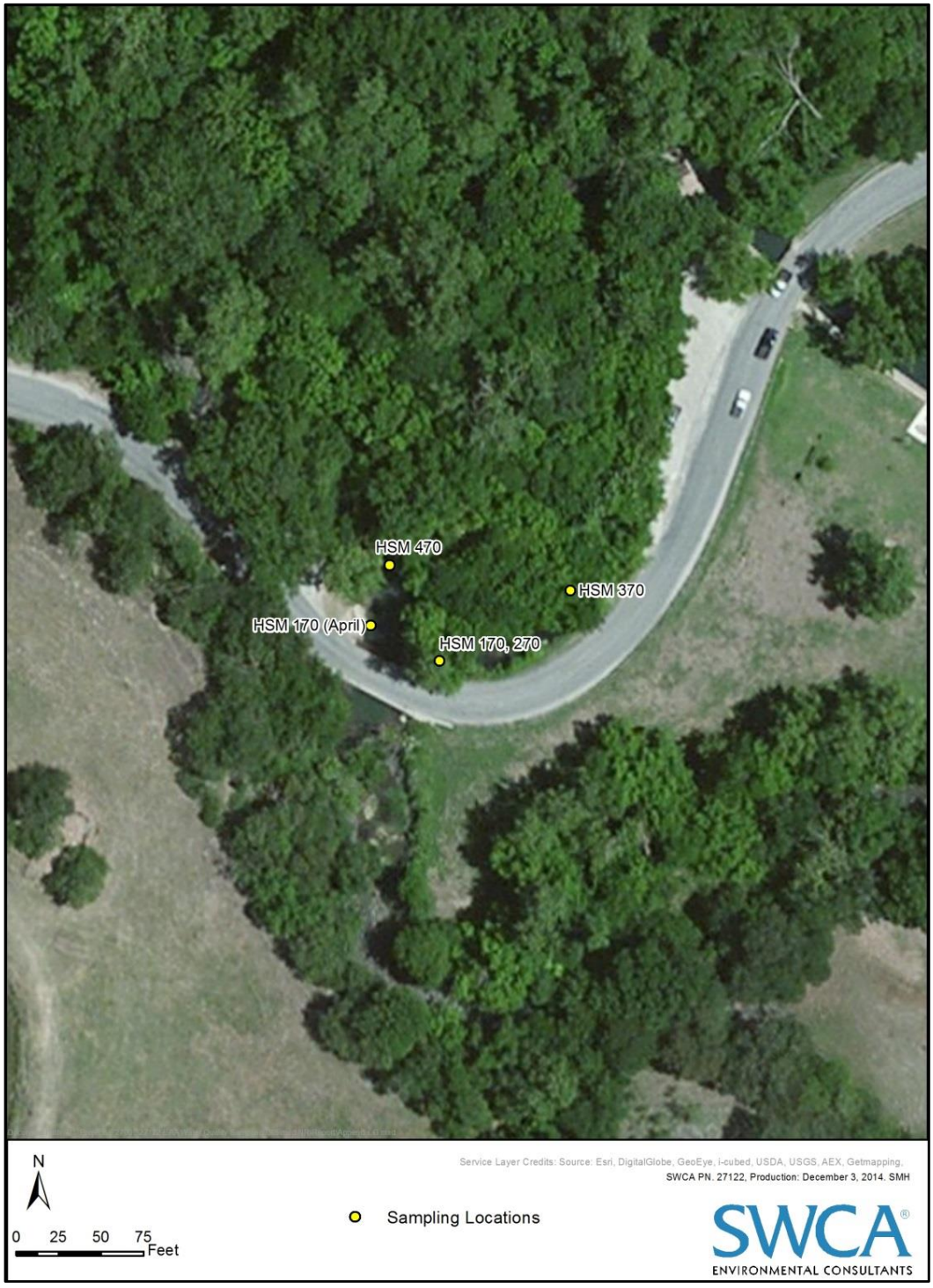
Surface water samples are collected near the middle of the river channel at this site. Sediment samples were collected along the western bank and approximately 30 feet upstream of the surface collection point due to high river depth in this location. The samples were collected in a vegetated area approximately 10 feet from the western bank.

HSM350

Water depth and access along the Rio Vista Park footbridge limited the possibilities for sediment collection. Sediment samples were collected on the east side of the island approximately 15 feet to the east of the island.

HSM370

Surface water samples are collected near the middle of the channel on the upstream side of the Cape Street Bridge. High water depth, strong current, and rocky bottom limited sediment collection possibilities. Sediment samples were collected approximately 10 feet from the western bank of the Cape Street Bridge. A field duplicate was collected at the same location.



Passive Diffusion Sampling

Passive diffusion samplers were deployed at each of the surface water sample collection sites. When at all possible, deployment locations coincided with the surface water locations, some adjustments had to be made to account for river depth, accessibility by SWCA staff for installation and retrieval, and interference by the public. PDSs were deployed for two-week periods during the months of February, April, June, August, and October 2015. In 2014, SWCA staff designed and constructed a concrete and stainless steel deployment device to hold the PDS. Use of the devices continued throughout 2015.

Storm events did occur during some PDS deployment periods which may affect the analytes present in PDS results. Rain events large enough to cause a change in discharge at the USGS Streamflow gauge in the San Marcos River occurred during PDS deployments on April 10, 13, 14, 16, 17 and 18, and June 14–15. Heavy rains and flooding occurred the week prior to the June 2015 deployment, discharge levels were higher throughout the deployment period than 2015 levels prior to June.

Any alterations to sample locations or lost PDS are discussed below.

HSM420

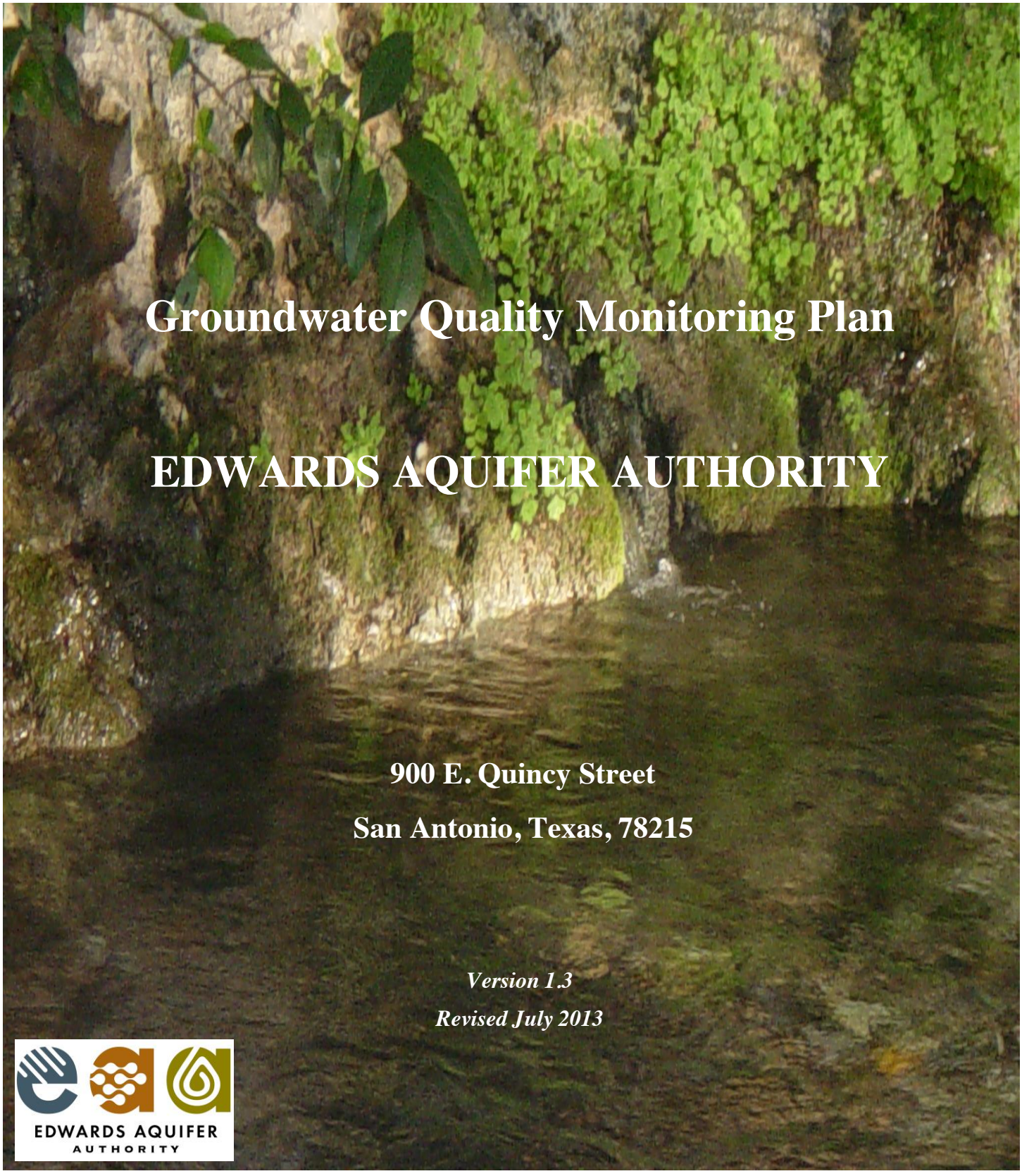
In 2014, the PDS location for HSM420 was moved downstream from the surface water collection site to an area with easier and safer access for SWCA staff. This location was used for all 2015 deployments.

HSM430

In 2014, the PDS location for HSM430 was moved upstream from the surface water collection site. This area was chosen because a children's education program accesses the river near the main sampling site. The upstream location protects the PDS from interference by the children and any sediment disturbed by their activity. This location was utilized throughout 2015.

APPENDIX D

GROUNDWATER QUALITY MONITORING PLAN



Groundwater Quality Monitoring Plan

EDWARDS AQUIFER AUTHORITY

900 E. Quincy Street

San Antonio, Texas, 78215

Version 1.3

Revised July 2013

EDWARDS AQUIFER AUTHORITY

CONTENTS

LIST OF TABLES

APPENDICIES

ACRONYMS AND ABBREVIATIONS

ASTM	American Society of Testing and Materials
bgs	below ground surface
COC	chain of custody
DQO	data quality objective
EAA	Edwards Aquifer Authority
EAHCP	Edwards Aquifer Habitat Conservation Plan
e-line	electronic water level measurement device
GW	groundwater
MSL	mean sea level
NAWQA	national water quality assessment
PPCP	pharmaceutical and personal care products
psi	pounds per square inch
QA	quality assurance
QC	quality control
SOP	standard operating procedure
TWDB	Texas Water Development Board
USGS	United States Geological Survey
U.S. EPA	United States Environmental Protection Agency
VOA	volatile organic analysis
VOC	volatile organic compound

SECTION 1

PURPOSE AND OBJECTIVES

1.1 PURPOSE AND OBJECTIVES OF THE PLAN

Data derived from water quality sampling and analysis provide the primary indicator of the state of water quality in the Edwards Aquifer. These data are also a key component of assessing water quality changes over time. Water quality data also compose the primary source of information for our understanding and monitoring of contaminant loading and migration in the Edwards Aquifer. As such, analytical samples collected for assessing water quality must be collected under a set of standard operating procedures (SOPs), which are outlined in this plan. Included herein are sections on data quality objectives (DQOs), sampling programs, analytical methods, field procedures, and guidelines for plan review.

The purpose of this plan is to provide an SOP document ensuring that useful, consistent, and defensible water quality data are produced by implementation of appropriate procedures and methods when water quality samples are being collected and analyzed. Water quality samples are currently collected under various sampling programs at the Edwards Aquifer Authority (EAA). Data quality requirements vary by program and are discussed in Sections 2 and 3.

Section 2 of this plan provides a description of DQOs in general, as well as DQOs for this program. Section 3 provides detailed information for each of the sampling programs. Section 4 provides a listing of analytical methods used by the EAA, as well as data-flagging requirements, information for sample containers, hold times, and sample preservation. Section 5 outlines field procedures; Section 6 discusses staff training and field audits. Section 7 provides information regarding annual plan review, and Section 8 provides a list of references cited in the document. The appendices (A–G) provide maps of sample locations, a glossary of terms, instrument operation and calibration information, field forms, information on regulatory limits for various compounds, stormwater sample-collection details, and equipment-decontamination procedures.

The purpose of this plan can be achieved by implementation of the objectives listed below and discussed in detail in Sections 2–7 of the plan. Each EAA staff member charged with the responsibility of collecting water quality or other analytical samples is required to be familiar with this plan, along with the objectives and procedures outlined in it. The objectives of this plan are to

- Obtain quality data that are defensible for their intended purpose,

- Analyze field samples in an appropriate and consistent manner such that the results are accurate and repeatable (see calibration procedures in Appendix C),
- Collect samples for laboratory analysis in an appropriate and consistent manner that will ensure accurate and reliable analytical results with a minimal number of anomalous data,
- Select sample sites and time periods that will provide representative water quality data for a range of aquifer conditions, and
- Review the plan annually and revise as needed.

SECTION 2

DATA QUALITY OBJECTIVES

The U.S. Environmental Protection Agency (U.S. EPA) has developed criteria for data quality objectives utilizing a seven-step process that optimizes sample collection and analysis on the basis of data uses, fiscal budget, sample quantity, and other parameters (U.S. EPA, 2000). The process is iterative and may be modified by the planning team to incorporate changes as required:

1. **State the Problem**
   Define the problem, identify the planning team, and examine the budget and schedule.
2. **Identify the Decision**
   State the decision, identify study questions, and define alternative actions.
3. **Identify Inputs to the Decision**
   Identify information needed for the decision, such as information sources, bases for action level, and sampling and analysis methods.
4. **Define the Boundaries of Study**
   Specify sample characteristics, and define spatial/temporal limits and units of decision making.
5. **Develop a Decision Rule**
   Define parameters for decision rules, specify action levels, and develop logic for action.
6. **Specify Tolerable Limits on Decision Errors**
   Set acceptable limits for decision errors relative to consequences (health effects, costs, other impacts).
7. **Optimize the Design for Obtaining Data**
   Select a resource-effective sampling and analysis plan that meets performance criteria.

2.1 U.S. EPA DQO Process as Applied to EAA Analytical Programs

2.1.1 DQO—State the Problem

Collect and analyze groundwater, spring water, and surface water samples that are contained in, issue from, or provide recharge to the Edwards Aquifer. In addition, collect stormwater and sediment samples as needed to satisfy program requirements. Sampling activities are to be conducted such that sufficient funding is held in reserve to collect confirmation samples if needed. In addition, the program must be flexible enough to collect samples in the event of a contingency (spill or other event) that affects or could potentially affect water quality of the Edwards Aquifer. The planning team includes the

Chief Technical Officer (CTO) and supervisory staff of the Aquifer Science Team of the EAA. Budget is proposed by the team and presented for board approval annually. The schedule is annual, with a general goal of collecting a minimum of 80 samples from wells, sampling all major springs (monthly or quarterly, depending on hydrologic conditions), and sampling surface waters twice annually while maintaining a budget reserve sufficient to address other needs (confirmation and contingency sampling).

Under a separate budget, the same team is charged with collecting surface water, stormwater, and sediment samples in support of the Edwards Aquifer Habitat Conservation Plan (EAHCP). Surface water, stormwater, and sediment samples are collected upstream, within, and downstream of Comal and San Marcos springs. Comal Springs has five designated sample locations, whereas San Marcos Springs has seven. Surface water and stormwater samples are to be collected twice annually, whereas sediment samples are collected once annually for the first year (to obtain baseline sediment quality information). Subsequent years may vary depending on results. See *Water Quality Monitoring Program Strategy for Comal Springs and San Marcos Springs in Support of the Edwards Aquifer Habitat Conservation Plan* (EAHCP Workplan).

2.1.2 DQO—Identify the Decision

The decision is to collect the samples as described earlier under the sampling programs and protocols outlined in detail in this document. Study questions are:

- Can the quality of water entering into, residing in, and issuing forth from the Edwards Aquifer be representatively monitored?
- For the allowed budget, how many analytical parameters can be collected?
- What analytical parameters are the most informative with regard to water quality?
- Can a relevant data set that provides historical and current water quality information as relates to the Edwards Aquifer, be developed and maintained?
- Can the data indicate trends in water quality over time?
- Can contingency sampling functionally define contaminant flowpaths and ultimately help in the prevention of public exposure to contaminants in the event of a spill?
- How does the EAA functionally share the information collected with stakeholders and the public?

Alternative actions are to

- Modify the analytical parameter list to accommodate budget constraints,
- Reduce the number of sample points and sample frequency if needed to accommodate budget constraints, and

- Continually review results to assess the need for, and feasibility of, modifying the parameter list such that analytical parameters collected provide the most information for the program, as well as cost-effective information.

2.1.3 DQO—Identify Inputs to the Decision

Sample frequency, sample type, and analytical program are all based on many inputs. The EAA strategic plan dictates minimum sample numbers, for example. Other inputs of importance include findings from karst researchers worldwide regarding the varying nuances of sampling in karst environments (i.e., multiple samples from a single location are generally more valuable than single samples from multiple locations). Assimilating and incorporating information gleaned from EAA sample results annually provide significant inputs to the process as well.

Action levels as defined for this study are not directly comparable to action levels for hazardous waste cleanup. In this program, action levels generally depend on sample type and program: for example, stormwater samples are triggered by specific stormwater events. Action levels may also be related to contingencies. If a contaminant of concern is detected in relation to a contingency, then additional sampling may be triggered. In other cases, an action level may be reached if an anthropogenic compound is detected above a regulatory limit. The resulting action will generally be to utilize additional sampling so as to delineate a possible source if a "contaminant" is the trigger.

Sampling and analysis methods are specific to each sampling program and are designed to provide data on water quality and changes to water quality that may occur over time. Results of each program are reviewed regularly, and changes to the parameters for each program may be made on the basis of these reviews or other needs. All programs are generally analyzed for field parameters (conductivity, dissolved oxygen [DO], turbidity, pH, and temperature) at the time the sample is collected. Other laboratory analytical parameters are then designated on the basis of the program.

2.1.4 DQO—Define Boundaries of the Study

Spatially the study is limited to the Edwards Aquifer Region, which includes contributing area, recharge zone, and artesian zone of the aquifer, as well as contiguous areas that may be pertinent to data collection. Temporal limits are defined by sample program and hydrologic condition. Temporal parameters are described in more detail under sample programs.

2.1.5 DQO—Develop a Decision Rule

Decision rules are defined by multiple factors:

- Strategic plan,
- Board directives,
- Approved budget,

- Data analyses and results,
- Historical data for a particular site, and
- EAHCP requirements.

2.1.6 DQO—Specify Tolerable Limits on Decision Errors

Decision-error limits are dictated by sample program. Whereas all results are considered important, contingency samples have an elevated priority because of the potential to provide a warning to the public in the event water quality is impacted. As such, in the event of a major contingency that requires long-term sampling and analysis, the budget impact would be significant. In some scenarios, additional laboratory funding would be requested from the board to cover these costs. Other sample programs are expected to be well planned and orchestrated such that no budget overruns occur.

The goal of the program in general is to collect a number of samples adequate to monitor the health of the Edwards Aquifer with high confidence that results are representative and accurate. These samples are collected through various sampling programs, as outlined in the next section.

2.1.7 DQO—Optimize the Design for Obtaining Data

The sampling plan as designed provides a resource-effective plan that meets performance criteria through data review, data assessment, and program requirements. The design is optimized by the data needs of each sample program, in which analytical parameters are specific to a program and designed to provide a maximum number of data cost-effectively.

2.2 Additional Inputs for DQO Process

Another definition of DQOs is provided by the Air Force Center for Environmental Excellence (AFCEE) in its *Quality Assurance Project Plan* (QAPP), which states that "DQOs specify the data type, quality, quantity, and uses needed to make decisions and are the basis for designing data collection activities" (AFCEE, 2001). The U.S. EPA and the AFCEE both generally utilize DQOs for hazardous waste clean-up sites, which often represent a threat to public health and the environment. However, sampling programs at the EAA differ in that most samples taken are "clean" and are not used to assess the success of a clean-up action.

Therefore, for the purposes of this plan, DQOs are met by assigning a level of precision and procedural techniques and parameter suites that are appropriate for the sample type and monitoring program. Whereas it is the purpose of this plan for all data produced to be representative and fully defensible, all data do not necessarily need to be analyzed by reference methods in the analytical laboratory utilizing a full suite of QA/QC samples. Most water quality samples collected are intended for monitoring the general status of water quality within the Edwards Aquifer, with one potential exception. In some cases, contingency sampling may be used to assess the impact of an event (i.e., a spill) to the Edwards Aquifer that has the potential for public health implications.

Therefore, DQOs developed for this document are designed to provide data of quality and quantity adequate to reflect the needs of the sample program under which a particular sample is collected. Most analytical data collected are designed to assess

- The presence or absence of anthropogenic compounds in the sample.
- Changes to chemical quality of the sample point when compared with prior data,
- Development of data adequate to establish a record of water quality such that future changes to water quality can be measured,
- Measurement of changes to water quality against changes in hydrologic conditions, and
- In the case of confirmation samples, assessment with a high degree of confidence the presence or absence of a compound of interest.

SECTION 3

SAMPLING PROGRAMS AND OBJECTIVES

Water quality samples are collected under one of the EAA sample programs described in detail in this section. Sample parameters vary with the sample program. For a better understanding of the sampling programs and sample distribution, typical water quality sample locations, see Appendix A, which is a listing of sample type and program. EAHCP sample locations are also provided.

3.1 SAMPLE TYPES AND SAMPLE PROGRAMS

Sample type is simply defined by source and media. The EAA collects samples from wells, springs, surface water, and, at times, groundwater in caves. Samples of soil or sediment may also be collected under some circumstances. As such, sample types are:

- Wells (applies to groundwater samples and includes water collected in caves),
- Springs,
- Surface water,
- Soil or sediment, and
- Stormwater.

Sample programs exist for each sample type, driving the DQO process for a given sample. Each sample program has a defined sample frequency and analytical parameter list. However, the analytical parameter list is always subject to future revision to accommodate changing circumstances. Table 3-1 summarizes current sample types and individual sample programs conducted by the EAA.

Table 3-1. Sample Types and Sample Programs

Sample Type	Sample Program	Sample Frequency	Analytical Parameters
Wells	Passive	Quarterly	FP, GWQP, VOC, TPH, TOC, PAH, metals, bacteria
	NAWQA	Annually	FP, GWQP, VOC, 8081B, 8141A, 8151A, 8082A, TOC, PAH, metals, bacteria
	Routine	Annually	FP, GWQP, VOC, 8081B, 8141A, 8151A, TOC, PAH, metals, bacteria
	TWDB	Annually	FP, GWQP, VOC, 8081B, 8141A, 8151A, TOC, PAH, metals, bacteria
	PPCP	Annual	FP, PPCP (limited to nine wells annually)
	Contingency	As needed	Defined by contingency event
	Confirmation	As needed	Defined by detection needing confirmation
	QA/QC	Per QA needs	Defined by QA program
	EAHCP	Water level dependant	FP, GWQP, TOC, TDS
Springs	Primary	Quarterly (noncritical period) Monthly (critical period)	FP, GWQP, SVOC, VOC, 8081B, 8141A, 8151A, 8082A, TOC, metals, total phosphorous, bacteria, orthophosphate as P
	Secondary	Annually	FP, GWQP, SVOC, VOC, 8081B, 8141A, 8151A, 8082A, TOC, metals, total phosphorous, bacteria
	PPCP	Annually	FP, PPCP (limited to six spring samples annually)
	Contingency	As needed	Defined by contingency event
	Confirmation	As needed	Defined by detection needing confirmation
	QA/QC	Per QA needs	Defined by QA program
Surface water	Primary	Twice annually	FP, GWQP, 8081B, 8141A, 8151A, 8082A, TOC, PAH, metals, total phosphorous, bacteria
	Secondary	Annual	FP, GWQP, 8081B, 8141A, 8151A, 8082A, TOC, PAH, metals, total phosphorous, bacteria
	EAHCP	Twice annually	FP, GWQP, VOC, SVOC, 8081B, 8141A, 8151A, 8082A, TOC, metals, total phosphorous, bacteria, TKN, DOC
	PPCP	Annually	FP, PPCP (limited to two surface water samples annually)
	Contingency	As needed	Defined by contingency event
	Confirmation	As needed	Defined by detection requiring confirmation
	QA/QC	Per QA needs	Defined by QA program
Soil/sediment	EAHCP	Annually	FP, GWQP, VOC, SVOC, 8081B, 8141A, 8151A, 8082A, TOC, metals, total phosphorous
	Contingency	As needed	Defined by contingency event
	Confirmation	As needed	Defined by detection requiring confirmation
	QA/QC	Per QA needs	Defined by QA program
Stormwater	EAHCP	Twice annually	FP, GWQP, VOC, SVOC, 8081B, 8141A, 8151A, 8082A, TOC, metals, total phosphorous, bacteria, TKN
	Confirmation	As needed	Defined by detection requiring confirmation
	QA/QC	Per QA needs	Defined by QA program

FP=field parameter, GWQP=general water quality parameters, SVOC=semivolatile organic compound, VOC=volatile organic compound, TOC=total organic carbon, TKN=total kjeldahl nitrogen, PPCP=personal care and pharmaceutical products., PAH=polynuclear aromatic hydrocarbons, TPH=total petroleum hydrocarbons, DOC=dissolved organic compounds

3.2 SAMPLE PROGRAM DETAIL

The sample types and programs summarized in Table 3-1 comprise the various analytical samples collected and analyzed by the EAA. Specific details of each program are provided in this section.

Sample Programs for Well Sample Types

1. **Passive Sampling Program**
   The passive sampling program is a program to provide continuous monitoring of particular wells (referred to as sentinel wells) through the use of a passive sampling device. The device currently used is the Amplified Geochemical Imaging (AGI), LLC passive diffuse sample module (aka, Gore Module). This device utilizes a sorbent material encased in GoreTex® fabric that is capable of detecting certain analytes for volatile and semivolatile compounds, as well as petroleum hydrocarbon compounds. The Gore Modules are hung at sp ecific intervals continuously in a sentinel well and replaced each month. The module is then shipped to AGI, LLC. for analysis (which is included as part of the module cost). Currently six wells designated as sentinel wells are located in Medina, Bexar, and Hays counties. These wells are sampled via grab sample quarterly. Sample parameter selection for this sample type is generally based on collecting parameters that are also detectable by the Gore Module, plus some additional parameters of value to an understanding of long-term trends in water quality. Sample frequency is also selected to detect temporal changes in water quality at a single sample point.

2. **National Water Quality Assessment (NAWQA) Program**
   The NAWQA wells are a series of thirty wells installed by the USGS for long-term assessment of water quality on a regional and national scale. Ten of these wells (all in the recharge zone of Bexar County) are sampled annually. The sample parameter list is selected on the basis of the NAWQA program and is used to contribute data to that study, as well as to build a historical record of water quality for the EAA data set. Ten out of 30 NAWQA wells are sampled annually, and every well must be sampled within a three-year period.

3. **Routine Water Quality Monitoring**
   Routine water quality samples are collected from a variety of well types (monitoring, domestic, agricultural, industrial, and municipal) to provide a data set for water quality regionwide for different well types. Sample parameters are broad in spectrum and designed to detect the most common anthropogenic compounds, as well as to document changes in concentrations of common cations and anions. These wells are generally sampled annually or less frequently.

4. Texas Water Development Board (TWDB)

Twenty TWDB samples are collected at designated wells using a split-sample technique, such that a sample set is sent to the TWDB contract laboratory (at no cost to the EAA). The remaining sample is sent to the EAA contract laboratory and analyzed for some of the same (TWDB) parameters, as well as additional parameters. This sample type provides a cost-effective tool for evaluation and comparison of analytical results for certain parameters (metals and anions). These wells (or springs, in some cases) are sampled annually under this program for a wide variety of parameters and are also used to assess the health of the system and to establish potential changes or trends in quality.

5. Pharmaceuticals and Personal Care Products (PPCPs)

These parameters detect various compounds found in common personal care products, as well as medications and household items. The primary value in this sample group is the conclusiveness of the data. Because the detection limits are low and the percentage of detections (at low concentrations) to date is high, this sample program appears to provide the most conclusive evidence of anthropogenic impacts on the Edwards Aquifer. The current sample budget allows for nine wells, six springs, and two surface waters to be sampled annually for these parameters. The same locations are sampled each year (with some exceptions) to provide a temporal record of water quality changes associated with the compounds. This program is being evaluated for an increase in sample frequency at some locations.

6. Contingency Samples

Contingency samples are collected only on an as-needed basis to assess potential contamination events related to spills or similar contingencies that have a high potential for affecting water quality in the Edwards Aquifer. Sample parameters and sample frequency are determined on the basis of type of spill (or other contingency), as well as the size of the event. Sample parameters and frequency are decided on by management. EAA staff members are subsequently directed to an appropriate course of action on the basis of assessment of the event by management.

7. Confirmation Samples

Confirmation samples are samples collected in response to an unexpected detection at a site where additional confirmation is needed in order to assess the probability that detection is not a sampling artifact or otherwise false detection. Confirmation detections are method and analyte specific and are taken at the direction of management.

8. QA/QC Samples

QA/QC samples are discussed in detail in Section 3.3.

9. EAHCP Drought Contingency-Sampling of transect wells and Springs

Well samples collected for the EAHCP are collected only when certain springflow criteria are met—specifically, low-flow situations at Comal and San Marcos springs. For Comal Springs, when flows fall below 30 cubic feet per second (cfs), weekly monitoring at three wells is to be conducted for DO, conductivity, pH, and temperature. The next trigger at Comal Springs is 20 cfs, and weekly monitoring is conducted using the same parameters plus nutrients, TDS, and TOC. For San Marcos Springs, the first trigger is 50 cfs, and the second trigger is 30 cfs.

Sample Programs for Spring Sample Types

1. Primary Springs

Primary springs are Comal, Hueco, and San Marcos. They are sampled monthly during critical periods (critical period = a ten-day average when water levels at Bexar, County, index well J-17 of below 660 feet msl, and/or a ten-day average springflow rate at either Comal or San Marcos springs is less than 225 cfs for Comal Springs and less than 96 cfs for San Marcos Springs). During noncritical periods, sampling is generally conducted quarterly. Sample parameters are extensive because the springs represent a composite sample of aquifer water and are directly associated with habitat for threatened and endangered species.

2. Secondary Springs

Secondary springs generally produce a smaller volume of springflow and may or may not be located within the San Antonio Segment of the Edwards Aquifer. These springs are Las Moras (Fort Clark Springs), San Pedro, San Antonio, Government Canyon, and other springs that may be designated for infrequent sampling. Las Moras is generally sampled annually, whereas the others are sampled quarterly or annually if flowing. Sample parameters are the same as those for the primary springs, except that sample frequency differs between primary and secondary.

3. Pharmaceuticals and Personal Care Products (PPCPs)

These parameters detect various compounds found in common personal care products, as well as medications and household items. The primary value in this sample group is the conclusiveness of the data. Because the detection limits are low and the percent of detections (at low concentrations) to date are high, this sample program appears to provide the most conclusive evidence of anthropogenic impacts on the aquifer. The current sample budget allows for nine wells, six springs, and two surface waters to be sampled annually for these parameters. The same locations are sampled each year (with some exceptions)

to provide a temporal record of water quality changes associated with the compounds. This program is being evaluated for an increase in sample frequency at some locations.

4. **Contingency Samples**
   Contingency samples are collected only on an as-needed basis to assess potential contamination events related to spills or similar contingencies that have a high potential for affecting water quality in the Edwards Aquifer. Sample parameters and sample frequency are determined on the basis of type of spill (or other contingency), as well as the size of the event. Sample parameters and frequency are decided on by management. EAA staff members are subsequently directed to an appropriate course of action on the basis of assessment of the event by management.

5. **Confirmation Samples**
   Confirmation samples are samples collected in response to an unexpected detection at a site where additional confirmation is needed in order to assess the probability that detection is not a sampling artifact or otherwise false detection. Confirmation detections are method and analyte specific and are taken at the direction of management.

6. **QA/QC Samples**
   QA/QC samples are discussed in detail in Section 3.3.

7. **Drought Contingency-Sampling of transect wells and Springs**

Sample Programs for Surface Water Sample Types

1. **Primary Surface Water**
   Primary surface waters are collected twice annually from eight locations: Nueces River at Laguna, Dry Frio River at Reagan Wells, Frio River at Concan, Sabinal River near Sabinal, Seco Creek at Miller Ranch, Hondo Creek near Tarpley, Medina River at Bandera, and Blanco River at Wimberley. These sample locations have a significant historical sample record and provide information regarding the quality of waters that effectively provide recharge to the Edwards Aquifer. Sample parameter lists are fairly significant, but do not generally include VOCs because of the low probability of detection of these compounds in a surface water environment.

2. **Secondary Surface Water**
   Secondary surface water sites may have varying locations and are generally sampled only annually. They are generally sites of interest because of their ability to provide recharge to the aquifer, or they may be indicators of water

quality from springs issuing forth from the Trinity Aquifer. Sample parameter lists are fairly significant but do not generally include VOCs because of the low probability of detection of these compounds in a surface water environment.

3. EAHCP Surface Water Samples

EAHCP surface water samples are collected at Comal and San Marcos springs; Comal Springs has five sample locations, whereas San Marcos has seven sample locations, which are situated upstream and downstream of the spring orifice locations. Parameters provide a broad spectrum of analyses so that water quality might be better understood in detail at these locations. The parameters list will also be used to study trends in water quality at these locations over time. Sample frequency is twice annually.

4. Pharmaceuticals and Personal Care Products (PPCPs)

These parameters detect various compounds found in common personal care products, as well as medications and household items. The primary value in this sample group is the conclusiveness of the data. Because the detection limits are low and the percent of detections (at low concentrations) to date high, this sample program appears to provide the most conclusive evidence of anthropogenic impacts on the aquifer. The current sampling budget allows for nine wells, six springs, and two surface waters to be sampled annually for these parameters. The same locations are sampled each year (with some exceptions) to provide a temporal record of water quality changes associated with the compounds. This program is being evaluated for an increase in sample frequency at some locations.

5. Contingency Samples

Contingency samples are collected only on an as-needed basis to assess potential contamination events related to spills or similar contingencies that have a high potential for affecting water quality in the Edwards Aquifer. Sample parameters and sample frequency are determined on the basis of type of spill (or other contingency), as well as the size of the event. Sample parameters and frequency are decided on by management. EAA staff members are subsequently directed to an appropriate course of action on the basis of assessment of the event by management.

6. Confirmation Samples

Confirmation samples are samples collected in response to an unexpected detection at a site where additional confirmation is needed in order to assess the probability that detection is not a sampling artifact or otherwise false detection. Confirmation detections are method and analyte specific and are taken at the direction of management.

7. QA/QC Samples

QA/QC samples are discussed in detail in Section 3.3.

Sample Programs for Sediment Sample Types

1. EAHCP Sediment Samples

EAHCP sediment samples will be collected for a broad spectrum of parameters to establish a base-line data set for sediments in and around Comal and San Marcos springs. These sample data are important to an understanding of potential issues with disturbing sediments in these areas.

2. Contingency Samples

Contingency samples are collected only on an as-needed basis to assess potential contamination events related to spills or similar contingencies that have a high potential for affecting water quality in the Edwards Aquifer. Sample parameters and sample frequency are determined on the basis of type of spill (or other contingency), as well as the size of the event. Sample parameters and frequency are decided on by management. EAA staff members are subsequently directed to an appropriate course of action on the basis of assessment of the event by management.

3. Confirmation Samples

Confirmation samples are samples collected in response to an unexpected detection at a site where additional confirmation is needed in order to assess the probability that detection is not a sampling artifact or otherwise false detection. Confirmation detections are method and analyte specific and are taken at the direction of management.

4. QA/QC Samples

QA/QC samples are discussed in detail in Section 3.3

Sample Programs for Stormwater Sample Types

1. EAHCP Stormwater Samples

EAHCP stormwater samples are collected twice annually for a broad spectrum of parameters to establish a base-line data set for stormwater quality in and around Comal and San Marcos springs. Stormwater samples are collected across the hydrograph at three points (rising, peak, and recession) to ascertain changes in water quality associated with storm flow.

2. **Confirmation Samples**
   Confirmation samples are samples collected in response to an unexpected detection at a site where additional confirmation is needed in order to assess the probability that detection is not a sampling artifact or otherwise false detection. Confirmation detections are method and analyte specific and are taken at the direction of management.

3. **QA/QC Samples**
   QA/QC samples are discussed in detail in Section 3.3

3.3 QUALITY CONTROL AND QUALITY ASSURANCE SAMPLES (QA/QC)

So that the data quality process is adhered to, additional samples for QA/QC must be taken and analyzed on occasion so that the quality of the sample collection and analysis process might be assessed. The various types of QA/QC samples applicable to this plan are outlined in the following paragraphs. Approximately ten percent of all samples will be QA/QC samples.

3.3.1 Matrix Spike and Matrix Spike Duplicate

Matrix spike and matrix spike duplicate samples (MS/MSD) are used to assess the effects of the sample matrix on the analytical process. The MS/MSD is a split (or replicate) of a parent sample collected in the field concurrently during the normal sample-collection process. Ideally, one MS/MSD is collected for each media type (soil, water, sludge, etc.) every 20 samples for each analysis being performed. For most sampling, no media changes will be encountered; i.e., most samples will be water. However, should the samples vary significantly in turbidity, collection of a specific MS/MSD for a sample with elevated turbidity may be advisable.

The MS/MSD is spiked and analyzed, and if the spiked analytes are recovered within a method-specific percentage, then matrix effects will be deemed minimal and no matrix data flag will be attached to the results. However, if spike recovery does not fall within the designated percentage, then analytical results will be flagged with an M-flag, indicating that a matrix effect is present. The sample name for MS/MSDs is identical to that of the parent sample, with the MS/MSD attached as a modifier at the end of the sample name. The MS/MSD will also be noted on the chain of custody (COC).

3.3.2 Ambient Blanks

Ambient blanks are taken to assess the possibility of site-specific atmospheric contamination of VOC samples. Ambient blanks are taken only when an area is suspected of having detectable quantities of atmospheric VOCs present (e.g., if VOC samples are being collected near a fueling operation). Ambient blanks are prepared by pouring ASTM

II, reagent-grade water directly into a 40-milliliter (mL), VOA container at the sample site during collection. The VOA is allowed to remain open and exposed to the atmosphere for the duration of the sample-collection process. The water is treated and analyzed as a sample from this point forward, with the designation *AB* on the COC. Ambient blanks are applicable to VOC samples.

3.3.3 Equipment Blanks

Equipment blanks consist of ASTM II, reagent-grade water poured over/through any sampling equipment used for collection of definitive samples. Most sample-collection equipment is disposable; however, in some cases, an equipment blank may be required. Equipment blanks are used to assess the effectiveness of decontamination procedures (for new materials provided to the EAA or from EAA decontamination processes) and are designated as *EB* on the COC. The frequency of collection of equipment blanks will depend on the sampling routine and sampling equipment in use.

3.3.4 Trip Blanks

Trip blanks are applicable only to VOC samples and are prepared and supplied by the contracted analytical laboratory. Trip blanks are to be shipped from the laboratory and maintained along with the VOC samples collected in the field. The purpose of trip blanks is to assess any potential contamination that may be introduced during shipping and sample handling. Trip blanks are designated on the COC as *TB*. Trip blanks are not to be opened in the field.

3.3.5 Duplicate or Replicate Samples

Duplicate and replicate samples are intended to assess the precision or repeatability of the analytical process. Typically one in ten samples should have a duplicate sample collected. The collection frequency of one duplicate per ten samples is generally acceptable. Note, however, that if a confirmation sampling event involves only three wells, then the duplicate (as well as other) QA/QC samples are still required. In other words, duplicates compose 10% of the sample set such that a sample population of ten would contain one duplicate. However, a sample population of 11 would contain two duplicates. The calculated number of duplicates is always rounded to the next whole number. Duplicates will generally be collected only at the 10% level for EAHCP analysis. For other programs, duplicate analysis is covered generally by the application of a TWDB sample set. Exceptions may apply and will be designated by management.

A duplicate sample is a second sample collected at the same location as that of the parent, either simultaneously or immediately following collection of the first sample (AFCEE, 2001). Both samples are collected, stored, and transported identically. A replicate sample, sometimes called a *split sample* is defined as a single sample divided into two samples (AFCEE, 2001). As with a duplicate, collection, storage, and transport of the resulting

samples must be identical. Duplicate and replicate samples each have unique identifiers (see Section 4).

3.3.6 Spike Samples

Spike samples are used as part of EAA's quality control on the contracted laboratory. EAA sampling staff members collect and subsequently spike twelve liters of water at one of the major springs, the spike containing a known percentage of a substance (contaminant). The spiked sample is then submitted to the contracted laboratory for analysis. If the contracted laboratory reports the findings within the specified amount, then EAA has confidence in their data. However, if the contracted laboratory is unable to detect or report the spikes, then EAA will pursue corrective action with the help of laboratory personnel to resolve the discrepancy. The corrective-action process will be initiated by the Hydrogeology Supervisor.

3.3.7 Recording QA/QC Samples in Analytical Workbook

Samples collected for QA/QC or spiked samples are to be recorded in chronological order in the laboratory notebook. The laboratory notebook is to be kept in the EAA Camden Building in the water quality area with the calibration notebook.

SECTION 4

ANALYTICAL METHODS, SAMPLE IDENTIFICATION, AND CUSTODY PROCEDURES

This section will discuss analytical methods applicable to the EAA sampling program, as well as provide a summary of analytical hold times, acceptable sample containers, and preservation techniques. In addition, a discussion of proper identification and sample custody procedures is provided herein.

4.1 ANALYTICAL METHODS

A variety of analytical methods are used in the various water quality and sediment sampling programs. Table 4-1 lists standard analytical reference methods that have possible application to the various programs. Recall, too, that Table 3-1 provides a current listing of analytical methods/parameters for each sample type and program.

Table 4-1. Analytical Reference Methods

Analysis	Method
VOC	SW-8260b
SVOC	SW-8270c
Chlorinated herbicides	SW-8151a
Organophosphorus compounds	SW-8141a
Nonvolatile compounds by HPLC	SW-8321
Organochlorine pesticides	SW-8081b
Polychlorinated biphenyls (PCBs)	SW-8082a
PAH	SW-8310
Determination of triazine pesticides	EPA-619
Organonitrogen pesticides in industrial/municipal wastewater	EPA-633
Oryzalin in industrial/municipal wastewater	EPA-638
TPH	TX-1005
Metals (except mercury)	SW-6010b or SW-6020
Mercury	SW-7470A
Cyanide	SW-9010B

Table 4-1. Analytical Reference Methods (continued)

Analysis	Method
Alkalinity	EPA-310.1
Common anions	SW-9056
Sulfate (SO_4)	EPA 300.0
pH	SW-9040B
Total dissolved solids (TDS)	EPA 160.1
Total suspended solids (TSS)	EPA 160.2
Ortho-phosphate	EPA 365.3
Nitrate/nitrite (both as N)	EPA 353.2
Ammonia (as N)	EPA 350.3
Kjeldahl (as N)	EPA 351.3
Total organic carbon (TOC)	EPA 415.1 or SW-9060
Sulfide	EPA 376.2
Dissolved organic compound	SM 5310C-2000
E-coli most probable number (MPN)	SM9223B-2004
Dissolved orthophosphate lab	EPA 365.3-1978
Ammonia as N-nondistilled	SMA4500 NH3D-1997
Bromide	EPA 300.0-1993
Chloride	EPA 300.0-1993
Nitrate as N	EPA 300.0-1993
Total phosphorous	EPA 365.3-1978
Enterococci	ENTEROLERT
Eshcerichia coli-colilert	SM 9223B 20Ed
Total coliform_colilert	SM 9223B 20Ed
TWDB anions	EPA 300.1
TWDB cations	EPA 200
TWDB nitrate	EPA 353.2
Anti-bacterial agents	1694
Pharmaceuticals	1694
Steroids/hormones	1698

SIM analysis	MS-SIM-GX/MS
Nonylphenols	WS-MS-0010
General water quality parameters (GWQP), general chemistry—(alkalinity, bicarbonate, carbonate, Ca, Mg, Na, K, Cl, SO_4, F, Si, Sr, bromide, nitrate as N, pH, TDS, and TSS)	Methods listed in table

4.2 DATA-FLAGGING CONVENTIONS

Analytical data must be qualified by the EAA-contracted analytical laboratory, which is done summarily by the addition of data flags to the data result. Table 4-2 provides a summary of the data-flagging convention used in this plan (modified from AFCEE, 2001).

Table 4-2. Data Flags

Flag	Description
J	Analyte positively identified. Quantitation is an estimation because the associated numerical value is below the reporting limit (RL).
U or ND	Analyte analyzed for, but not detected. Associated numerical value at or below method detection limit (MDL).
R	Data rejected because of deficiencies in ability to analyze sample and meet QC criteria.
B	Analyte found in associated blank, as well as in sample.
M	Matrix effect present.
T	Tentatively identified compound (using GC/MS).
No flag	Analyte detected at reported concentration.

4.3 SAMPLE CONTAINERS AND HOLD TIMES

Samples sent to the analytical laboratory must be properly containerized, preserved, and analyzed within specified hold times for the method for the data to be of defensible quality. In addition to the requirement for samples to be chilled to 4°C, ±2°, some analytical methods require the sample to be maintained at specific pH values. As such, Table 4-3 lists acceptable container types, preservatives, and hold times for common analytical methods. The table includes all scheduled analyses for the various sampling programs. In the event an analysis is required that is not included in the table, Aquifer Science Team members listed herein (hydrogeology supervisor or hydrologic data coordinator) will communicate with the EAA contracted laboratory regarding appropriate containers, preservatives, and hold times for the methods in question.

Table 4-3. Sample Containers, Preservatives, and Hold Times

Analyte or Method[1]	Container	Preservation	Minimum Sample Volume	Holding Times
Volatile organic compounds (SW8260B)	G, Teflon®-lined septum, T	4°C, HCl to pH <two	3× 40 mL with no head space or (1) 250 mL amber bottle with no head space	14 days (water and soil); seven days if unpreserved by acid
Semivolatile organic compounds (SW8270C)	G, Teflon®-lined cap, T	4°C	1L or 8 ounces/soil	Seven days until extraction and 40 days after extraction (water); 14 days until extraction and 40 days after extraction (soil)
Chlorinated herbicides (SW8151a)	G, Teflon®-lined cap, T	4°C	1L or 8 ounces/soil	Seven days until extraction and 40 days after extraction (water); 14 days until extraction and 40 days after extraction (soil)
Organophosphorus compounds (SW8141A)	G, Teflon®-lined cap, T	4°C	1L or 8 ounces/soil	Seven days until extraction and 40 days after extraction (water); 14 days until extraction and 40 days after extraction (soil)
Organochlorine pesticides (SW8081)	G, Teflon®-lined cap, T	4°C	1L or 8 ounces/soil	Seven days until extraction and 40 days after extraction (water); 14 days until extraction and 40 days after extraction (soil)
Polychlorinated biphenyls (SW8082)	G, Teflon®-lined cap, T	4°C	1L or 8 ounces/soil	Seven days until extraction and 40 days after extraction (water); 14 days until extraction and 40 days after extraction (soil)

Analyte or Method[1]	Container	Preservation	Minimum Sample Volume	Holding Times
Polynuclear aromatic hydrocarbons (SW8310)	G, Teflon®-lined cap, T	4ºC	1L or 8 ounces/soil	Seven days until extraction and 40 days after extraction (water); 14 days until extraction and 40 days after extraction (soil)
Total petroleum hydrocarbons (TX1005)	G, Teflon®-lined septum, T	4ºC, HCl to pH <2	3× 40 mL with no head space or (1) 250 mL amber bottle with no head space	14 days (water); to extraction, and 14 days after extraction
General water quality parameters (alkalinity, bicarbonate, carbonate, Ca, Mg, Na, K, Cl, SO_4, F, Si, Sr, bromide, nitrate (as N), pH, TDS, and TSS)	P, G	4ºC	250 mL	28 days
Cyanide	P, B	4ºC; NaOH to pH >12	500 mL or four ounces /soil	14 days (water and soil)
Ortho-phosphate (as P)	P, G	4ºC	50 mL	48 days
Nitrate (as N) and nitrite (as N)	P, G	4ºC	250 mL	48 days
Ammonia (as N)	P, G	4ºC	250 mL	28 days
Kjeldahl (as N)	P,G	4ºC	250 mL	28 days
Total organic carbon	P,G	4ºC, H_2SO_4 to pH <2	250 mL	28 days
Dissolved organic carbon	P,G	4ºC, H_2SO_4	400 mL	28 days
Phosphorus	P,G	4ºC, H_2SO_4	500 mL	28 days
Alkalinity E310.1	P, G	4ºC	50 mL	14 days
Common anions SW9056	P, G	None required	50 mL	28 days for Br^-, F^-, Cl^-, and SO_4^{-2}; 48 hours for NO_3^-, NO_2^-, and PO_4^{-3}
Cyanide, total and amenable to chlorination SW9010A SW9012	P, G, T	4ºC; NaOH to pH >12, 0.6 g ascorbic acid	500 mL or four ounces /soil	14 days (water and soil)
Total dissolved solids (TDS) E160.1	P, G	4ºC	100 mL	Seven days
Total suspended solids (TSS) E160.2	P, G	4ºC	100 mL	Seven days
Biological oxygen demand (BOD), five-day	P, G	4ºC	1L	48 hours
Sulfide	P, G	4ºC	1L	Seven days

Analyte or Method[1]	Container	Preservation	Minimum Sample Volume	Holding Times
Total inorganic carbon	P, G	4ºC	250 mL	28 days
Escherichia coli-colilert	P, G, WP	4ºC, dark, sodium thiosulfate, one-inch headspace	100–250 mL	Six + two h (this holding time represents six field hours and two lab hours
Enterococci	P, G, WP	4ºC, dark, sodium thiosulfate, one-inch headspace	100–250 mL	Six + two h (this holding time represents six field hours and two lab hours
Total coliform-colilert	P, G, WP	4ºC, dark, sodium thiosulfate, one-inch headspace	100–250 mL	Six + two h (this holding time represents six field hours and two lab hours
TWDB anions	P, G	4ºC, filtered on site	500 mL	28 days
TWDB cations	P, G	4ºC, HNO_3, filtered on site	250 mL	28 days
TWDB nitrate	P, G	4ºC, H_2SO_4, filtered on site	500 mL	28 days
1694 Pharmaceuticals (LCMS/MS) Acetaminophen Caffeine Carbamazepine Cotinine DEET Diltiazem Fluoxetine Gemfibrozil Ibuprofen Lincomycin Naproxen Sulfamethoxazole Trimethoprim Tylosin Iopromide	G, Teflon®-lined cap, T	4ºC	1L or 8 ounces/soil	Seven days (unpreserved), 14 (days preserved)
1694 Antibacterial (LCMS/MS) Triclobarban Triclosan	G, Teflon®-lined cap, T	4ºC	1L or 8 ounces/soil	Seven days (unpreserved), 14 (days preserved)

Analyte or Method[1]	Container	Preservation	Minimum Sample Volume	Holding Times
1698 Steroids/hormones (LCMS/MS) 17a-Estradiol 17a-Ethynyl estradiol 17b-Estradiol Equilenin Estriol Estrone Progesterone Testosterone	G, Teflon®-lined cap, T	4°C, H_2SO_4	1L or 8 ounces/soil	Seven days (unpreserved), 14 (days preserved)
Nonylphenols/ethoxylates/bisphenol-A (GCMS) Bisphenol-A Nonylphenol diethoxylate (tech.) Nonylphenol monoethoxylate (tech.) p-Nonyphenol (tech.) p-tert-octylphenol para-n-nonylphenol	G, Teflon®-lined cap, T	4°C, H_2SO_4	1L or 8 ounces/soil	Seven days (unpreserved), 14 (days preserved)
Selected metals—6020 (Al, Sb, As, Ba, Be, Cd, Cr (total), Cu, Fe, Pb, Mn, Hg, Ni, Se, Ag, Tl, and Zn)	P, G, T	HNO_3 to pH <2, 4°C	500 mL or 8 ounces/soil	180 days (water and soil)
Hg—Cold vapor 7470.7471	P, G	HNO_3 to pH <2, 4°C	250 mL	28 days (14 days if in plastic bottle)
Selected metals—(ICP unless otherwise noted) 6020/7470/7471 (Al, Sb-ICP-MS or GFAA, As, Ba, Be, Cd, Cr (total), Cu, Fe, Pb, Mn, Hg-ICP-MS or CVAA, Ni, Se-ICP-MS or GFAA, Ag, Tl-ICP-MS or GFAA, and Zn)	P, G, T	HNO_3 to pH <2, 4°C	500 mL or 8 ounces/soil	180 days (water and soil)
Hg- ICP-MS or CVAA **7470/7471**	P, G	HNO_3 to pH <2, 4°C	250 mL	28 days (14 days if in plastic bottle)

a. Polyethylene (P); glass (G); brass sleeves in sample barrel, sometimes called California brass (T).
b. No pH adjustment for soil.
c. Preservation with 0.008 percent $Na_2S_2O_3$ only required when residual chlorine present.

4.4 SAMPLE IDENTIFICATION

Each sample must have a unique identifier so that it can be differentiated from other samples. In addition, sample names must meet the required criteria for entry into the data base and subsequent electronic storage and retrieval of the data. Therefore, sample names must conform to the guidelines herein.

4.4.1 Sample Identification, for Non-EAHCP Samples

The primary method for non-EAHCP sample identification will be to use the state well registration number for wells (and springs as applicable) or the site name for surface water samples. When no well number is available for a spring, then an abbreviation for the spring name and orifice will be used. For example,

- The unique identifier, for use on the COC for Comal Springs, Orifice 1 is DX 68-23-301,
- The unique identifier for use on the COC for Comal Springs Orifice 3 (no state well number) is CS3,
- The unique identifier for use on the COC for the Nueces River at Laguna is Nueces@Laguna, and
- For wells that are sampled in more than one location within the borehole, the interval number is attached to the well name. For example, well LR-67-09-101 is regularly sampled at two intervals, so the COC name is LR-67-09-101-1 (interval 1 or upper interval) and LR-67-09-101-4 (interval 4, or the deepest interval).

Note that to the extent possible, custody forms and sample-container labels will be preprinted by the laboratory.

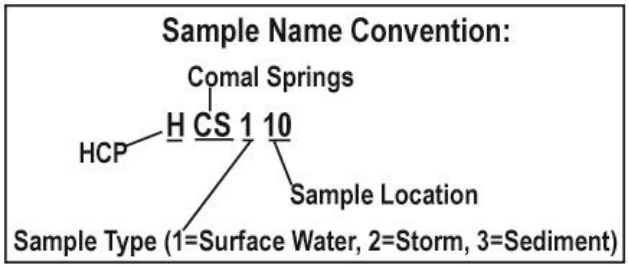
In some cases no well number or other recognized registration number will exist for the sample point. Then documentation for the sample location will require location (latitude/longitude and address if available) and name of well owner. Photographic documentation is also required. The subsequent sample name will be a *pseudo* state well number derived from the well location and owner name. For example,

> The unique identifier for a sample taken from the Mary Smith residence in San Antonio, a private well with no state well registration number and located in Bexar County (abbreviation AY) at state well grid location 68-23-8, would be AY-68-23-8MS.

When wells of this type are sampled, proper documentation to include collection location, sample name, sample parameters, date, and time is extremely important and will be recorded in the field log for cross reference to the COC.

4.4.2 Sample Identification, for EAHCP Samples

For samples collected under the EAHCP, sample names are designed to provide additional data regarding sample type. Specifically the sample name will indicate the sample as an EAHCP-related sample, the spring group (Comal or San Marcos), sample type (surface water, stormwater, or sediment), and sample location. In the example below, the sample name refers to an EAHCP sample at Comal Springs, collected for surface water, at location 10. Sample locations are noted on the sample-collection maps for the EAHCP (included in Appendix A with calendar year 2013 non-EAHCP sample locations.



4.4.3 Sample Identification, QA/QC

For QA/QC samples, a modifier is added to the sample name to indicate the QA/QC type, for example, DX-68-23-301 (Comal Spring 1). If an MS/MSD sample were collected, a separate set of samples named DX-68-23-301MS/MSD would be collected. The appropriate modifier for each QA/QC sample is listed in Table 4-4.

Table 4-4. QA/QC Sample Nomenclature

Sample Type	Modifier
Matrix spike/matrix spike duplicate	MS/MSD*
Ambient blank	AB#
Equipment blank	EB#
Trip blank	TB#
Duplicate	FD*
Replicate	FR*

* Requires sample, with same sample name as parent + modifier at end.
# Numerical suffix to be attached and referenced in laboratory notebook; suffix starts at 1 at beginning of each calendar year. Details for location, etc. included in field notebook documentation.

4.5 SAMPLE CUSTODY

All samples shipped to the analytical laboratory must have proper custody documentation. One person on each sampling team is to have primary responsibility for sample custody (generally the lead sampler). This person will be designated as the *sample custodian* for sample collection. A person has custody of a sample group if samples are (1) in his/her possession, (2) in his/her view after being in his/her possession, (3) placed in a secure area by the sample custodian.

Furthermore, the laboratory COC form is to be filled out completely by the sample custodian in the field. The form must contain all required information for proper sample identification (if not preprinted) and must contain appropriate signatures. In addition, samples must remain in control of the sample custodian. Once collected, samples must be under the supervision of the sample custodian or secured in a manner such that no reasonable chance of unauthorized access to the samples exists. Furthermore, samples shipped by a common courier (i.e., Federal Express), require that the sample custodian note on the COC when the samples were released to the courier and why. The contracted analytical laboratory will sign the COC upon receipt. A breach of sample custody can invalidate the defensibility of the sample set.

4.6 DATA VALIDATION

Analytical data require review in order to be validated prior to publication. The amount of review (or level of review) is a function of the sample type. Field-collected data results are reviewed in the field by the analyst. One of the best ways for the field analyst to assess the acceptability of field data and subsequently validate them is to compare the results with historical data. This comparison, combined with proper equipment calibration, maintenance, and analytical technique, will provide an adequate validation process for field-parameter data. In the event that the analyst finds a discrepancy in the field data, a second analysis for the parameter in question should be performed. If the analyst feels that the data may be inaccurate because of issues with the field analysis, this fact is to be noted on the sample field sheet.

Contract analytical-laboratory data will receive a 100% analyst review at the analytical laboratory prior to posting of analytical results. A subsequent analytical laboratory review by the QA/QC section is required prior to the analytical laboratory's certification of the results. A subsequent 10% review by EAA staff of the analytical data is required upon receipt of the final analytical report. The analytical report will contain numerical analytical results for the laboratory QA/QC samples (i.e., LCS, method blanks, etc.). These laboratory analytical data are to have data flags assigned by the analytical laboratory.

SECTION 5

FIELD PROCEDURES AND SAMPLE COLLECTION

Possibly the most significant part of any successful sample collection is the field procedures and documentation that occur in the field. Field procedures to include sample equipment decontamination; sample-collection procedures for well, spring, surface water, and sediment samples; a listing of potential sources of contamination; and the proper use of field notebooks are included in this section.

5.1 RESPONSIBILITIES

The CTO and hydrogeology supervisor for the data-collection program will ensure that the samples obtained represent the environment being investigated. The hydrologic data coordinator will ensure that all field crews are provided with the necessary information, equipment, and supplies to successfully schedule and complete sampling. The hydrologic data coordinator will also be the primary point of contact between the contract analytical laboratory project manager and the EAA sampling team(s). The hydrologic data coordinator will report sampling deviations to the CTO and hydrogeology supervisor. Sample-collection staff (generally, environmental science technicians) are responsible for being familiar with the instructions provided in this SOP and for collection of samples in accordance with this SOP. For most sample-collection events, a sample team of two people will be utilized. Teams will have a lead sampler (according to experience level) who is directly responsible for adherence to directives of the SOP.

5.2 EQUIPMENT DECONTAMINATION

In order to obtain samples that are reliable and defensible, all (nondisposable) sample-collection equipment must be decontaminated prior to use. When possible, sample collection from a wellhead valve directly to a sample container is best. When this kind of collection is not possible, disposable equipment is preferable.

If neither option is plausible, then nondisposable sample-collection devices (constructed of Teflon® when possible) must be used. Sampling equipment that is exposed directly to sample media (pumps, peristaltic or submersible pump tubing, reusable bailers, or other devices) will be washed in a nonphosphate, laboratory-grade detergent such as Alconox®, followed by a double rinse in potable water. A final rinse of deionized or distilled water will be applied after completion of the initial decontamination process.

Equipment that will not be used immediately must be kept clean by wrapping in aluminum foil or placed inside clean plastic bags. Such storage will prevent

contamination of the equipment prior to use. See Appendix G for additional detail regarding equipment-decontamination procedures.

5.3 SOURCES OF SAMPLE CONTAMINATION

Samples can easily become contaminated during the sample-collection process. It is the responsibility of the sampler to prevent contamination from occurring. A multitude of potential cross-contamination sources are present in the field environment. Because many of the analytical methods used can quantify various analytes in parts per billion or less, even minute sources can potentially contaminate a sample. For example, Table 5-1 summarizes some of the potential sources that can cause a false-positive reading in a sample. These should be considered when samples are collected in the field. Also note that water has a strong affinity for many anthropogenic compounds. Use of good judgment is another aspect of collecting defensible data. Steps should be taken to avoid cross-contamination of samples. If the sampler suspects the possibility of cross-contamination, he/she should note it in the field log for the sample set in question, or the site should be sampled again if necessary.

Table 5-1. Potential Sources of Cross-Contamination

Source	Possible Contaminant
Fuels—generators, work vehicles	BTEX/TPH/VOC/ SVOC
Exhaust fumes—generators, vehicles, heavy roadway traffic, overhead air traffic	BTEX/TPH/VOC/ SVOC
Oil/grease residue on tools, gloves, etc.	TPH/SVOC
Tape	VOC
Insect spray	VOC/SVOC/ pesticides
Insect repellent	SVOC/VOC/ pesticides
Sunscreen	VOC/SVOC/ PPCP
Soil/debris	Bacteriological/ metals/SVOCs
Foods/drinks/medications and other personal care products such as soap, makeup, deodorant, etcetera.	PPCPs

5.4 FIELD NOTEBOOKS

The field notebook is a legal document and should be treated as such. All pertinent site information should be in the notebook, including site name, weather information, site conditions, well condition (if applicable), equipment problems, sample-collection notes such as approximate sample times, and any other information that may be deemed valuable. The names of individuals on the sample team, as well as visitors to the site, should also be recorded in the notebook. All information recorded in the field notebook should follow the format described herein. No blank spaces are to be left on pages. All blank areas should be marked through with a single line and initialed by the author. The top of each page should have the date and sample site. The base of each page should contain the initials of the author. Mistakes are to be crossed out with a single line and initialed. Field notebooks are to be recorded in black ink only.

5.5 SAMPLE COLLECTION

Field personnel must wear clean (disposable) nitrile gloves during the sample-collection process. Generally samples for field water quality parameters are to be collected first, followed by VOC, SVOC, and metals samples. Any required information is to be recorded in the field notebook before, during, and after sampling.

5.5.1 Well Samples

Each well must be gauged and sounded (if possible). The general condition of the well will be noted in the field notebook. After the water level is gauged, the purge volume for the well will be calculated by the following equation,

$$V = H \times F,$$

where V is one well volume, H is the difference between depth of the well and depth to water in feet (i.e., length of water column in well), and F is the number of gallons per foot of water for the well size (Table 5-2).

Table 5-2. Well-Casing Volume in Gallons per Foot

Casing Diameter (in inches)	F (gallons per foot of water in well)
2	0.16
4	0.65
6	1.47
8	2.6
10	4.1
12	5.9
16	10.4

The relationship $F = \pi (D/2)^2 \times 7.48$ gallons/ft^3 can be used to calculate pipe volumes not listed in the table. Note that D = pipe diameter in feet and F = volume per foot.

A well may be sampled upon achieving *one* of the following: a minimum of three well volumes are purged from the well *or* field-parameter readings are stabilized for a minimum of three parameter measurements. Wells that go dry prior to purging the three well volumes, or the field-parameter readings have not stabilized, shall be purged to dryness (except for drinking-water supply or irrigation wells). During purging, water will be monitored for the following field parameters: *temperature*, *pH*, *DO*, *conductivity*, *and turbidity*.

Stabilization is defined as

- Temperature fluctuations limited to ±1° C,
- pH fluctuations ±0.1 unit,
- DO fluctuations ± 0.3 milligrams per liter (mg/L),
- Conductivity fluctuations ±5%, and
- Turbidity ±10 NTU.

In the event that these parameters do not stabilize (after purging of three well volumes), a maximum of six well volumes will be purged prior to sample collection (if the field parameters stabilize at any point, the well is considered ready to sample, and purging may cease). Once the well has stabilized or the maximum purge volume is reached, and the well has recovered to at least 80% of its initial level, it is ready to sample.

5.5.2 Spring Samples

Springwater samples should be as representative of the actual water issuing forth from the spring as possible and not be "contaminated" by surrounding surface waters. As such, various sample-collection techniques may be necessary. For spring orifices located below surface water, samplers should use a peristaltic pump to collect the springwater sample by placing the intake part of the pump tubing in the spring orifice. This placement allows for filling of sample bottles without introducing surface waters or overflowing the bottles and losing any preservatives inside. This technique is not feasible or necessary for all spring sites but should be utilized as appropriate. When a spring that can be sampled without a pump is being sampled, then a typical grab sample may be collected. In some cases (high flow volume) it may be necessary to collect samples in a clean bottle (such as a clean 1,000-mL amber glass bottle, clean Teflon beaker, or something similar) and the container used to transfer water into subsequent containers. Doing so will prevent the loss of any preservatives that may be in sample bottles. However, the action should be performed with as little agitation to the sample as possible to preserve potential VOCs in the parent sample.

Note: If preservatives in the sample container are diluted or lost because of the collection technique, a new bottle should be used. If a new bottle is unavailable, the lack of preservatives must be communicated to the laboratory to ensure that the sample remains valid by being analyzed within the appropriate hold time.

Current information and observations concerning springflow at the time of sample collection should be entered in the field notebook. For example, approximate springflow volume (can be listed as low, medium, high) is the flow representative of an extreme volume (high or low); observed water quality should be noted (clear, cloudy, or murky), along with other observations deemed appropriate by the lead sampler.

5.5.3 Surface Water Samples

Surface water samples should be collected without disturbing the sediment, if at all possible. The presence of sediment in the sample may bias the results. Samples should be collected from the flowing parts of the stream on the upstream side of the sample collector. Samples are not to be collected from stagnant areas, and they should also be taken from approximately the same location for each sample event. Sample bottles should be filled by collecting the water sample in a clean bottle or by using a peristaltic pump and transferred into the final sample bottle. Caution should be used to prevent overfilling of the sample bottle and diluting any preservatives that may be in the bottle.

Note: If preservatives in the sample container are diluted or lost because of the collection technique, a new bottle should be used. If a new bottle is unavailable, the lack of preservatives must be communicated to the laboratory to ensure that the sample remains valid by being analyzed within the appropriate hold time.

Information regarding the sample point in the stream, streamflow, and water conditions, as well as other information deemed appropriate by the sampler, should be entered into the field notebook at the time of sample collection.

5.5.4 Sediment Samples

Sediment samples are scheduled for collection by the EAHCP sampling program. Furthermore, the possibility exists that EAA staff may be required to collect samples of this type on occasion for other programs. As such, a brief discussion of this type of sample is included herein. Sediment samples may be collected from below the water line, from a dry stream bed, or from any other source in which sediments or soils may collect. The collection technique will depend on conditions. For example, a push tube for collection of sediments below the water surface is generally needed. However, if sediments are being collected from a dry area, then they may be collected using a trowel, hand auger, or push tube of some type. As with all sediment/soil-related samples, VOC samples must be collected in a manner that will minimize the loss of in situ volatiles. As

such, sediment samples for VOC analysis will not be composited or homogenized in the field. Samples for VOC analysis are to be collected first.

In the event that the discreet-interval sediment sampler is used for collection of sediments, the procedure for device operation is as follows:

1. Insert the lower-half of the lead internal rod using a ⅜-inch coupler (first stage) into the internal drive tip. Pull down on the brass ring, push the grooved end of the lead internal rod into the recess, and gently release the brass ring.
2. Insert the internal drive tip and lead internal-rod assembly into the external drive tip.
3. Connect the upper lead internal rod using the ⅜-inch coupler (second stage) to the lower lead internal rod (first stage).
4. Insert a four-ft liner, with the hole in the liner oriented to the top, into the sample tube (the sample tube has a two-inch outside diameter and consists of two parts, a double female lead section and a male × female extension). If the EAA staff chooses to use a two-ft liner instead of a four-ft liner, the process is the same, except that the male × female upper extension is not used.
5. Insert a plastic core catcher (white) in the bottom of the sample tube, with the dome pointing toward the top.
6. Insert the internal drive tip/external drive tip assembly into the sampler tube.
7. Insert the metal core catcher into the top of the main sampler tube, with the dome pointing upward.
8. Install the internal tip chamber to the top of the main sampler tube.
9. Install the top drive head adapter to the top of the internal tip chamber.
10. Install the thread protector cap or internal rod with external drive extensions (if using 1⅛ × 3 ft external extensions with ⅜-inch internal rods, place a ⅜-inch coupler on the top of the internal rods prior to installing the top drive head adapter). Install the thread protector cap at the top of the internal rod prior to connecting the vented drive head (install the correct number of internal/external extensions necessary to lower the sampler to the surface and arrive at the desired sampling point).
11. Install the vented hammer adapter, already attached to the slide hammer.

The field notebook will note details related to the sediment samples; for example, was the sediment dry or below water, how was it collected, was it discolored, at what depth (from the surface) was the sample collected? If sediments are field screened with a photoionization detector (PID), readings from the various intervals will be recorded. Other details will be recorded as deemed appropriate by the sampler.

Also, if a hand trowel is used, it must be constructed of stainless steel, and it must be decontaminated prior to each use. For sites at which multiple samples will be collected, multiple hand trowels may be used, or a single trowel may be used if it is decontaminated in the field (Alconox wash, double rinse in potable water, followed by a DI water rinse).

5.5.5 Stormwater Samples

Stormwater samples are scheduled for collection under the EAHCP program at each spring group, twice annually. Stormwater sample collection offers additional challenges and safety issues, as compared with that of other samples collected under EAA programs. This section provides a general summary of stormwater sampling, additional detail regarding this sample type being provided in Appendix F.

Stormwater samples are scheduled for collection across three points on the storm hydrograph. One sample collected from the initial rise on the hydrograph, a second sample from the peak area of the hydrograph, and a final sample along the recession limb of the graph. In addition, water quality parameters obtained from EAA-installed real-time water quality monitors, flow data from the U.S.G.S. springs gauges, and local weather radar maps will be used to define the behavior of the systems and help guide sample-collection timing. The real-time monitors collect data at 15-minute intervals for conductivity, DO, pH, temperature, and turbidity.

A stormwater event will be dictated by a rainfall event sufficient to cause a significant rise in springflow at either Comal or San Marcos springs. The significant rise in springflow is to be further defined in conjunction with real-time data systems. See Appendix F for details on stormwater sampling procedures.

SECTION 6

ANNUAL REVIEW OF PLAN

6.1 ANNUAL REVIEW OF GROUNDWATER QUALITY PLAN

Data collection described in this plan will be reviewed by May 31 each year. The review will be directed at ensuring that all data collection herein is necessary, properly performed, and properly staffed. Furthermore, the review will ascertain whether the methodologies in use remain appropriate for their intended purpose. The review process will include all sample types and programs, as well as methods used to collect and analyze these samples.

Postreview, modifications will be made, if needed, to accommodate changes to EAA sampling. Changes will be imitated by the management and staff of the EAA Aquifer Science Team.

SECTION 7

CONTINUING EDUCATION CREDITS FOR SAMPLE-COLLECTION PERSONNEL

7.1 CONTINUING EDUCATION

Staff members assigned to sample-collection teams must attain a minimum of 12 hours of continuing education each year. Opportunities for continuing education will be provided either in-house by the EAA, or, in some cases, staff may be sent to an offsite facility to attend a class. One hour of credit is considered to be one classroom or contact hour. Staff may also carry credits over into the following year if more than 12 hours of credit are obtained in a calendar year. It is the responsibility of each staff member to document his/her credit hours annually and submit them to the hydrogeology supervisor by December 1 of each year.

SECTION 8

REFERENCES CITED

AFCEE, 2001, Quality Assurance Project Plan, Version 3.1: Air Force Center for Environmental Excellence, Brooks AFB, Texas.

EAA, 2012, Water Quality Monitoring Program Strategy for Comal Springs and San Marcos Springs in Support of the Edwards Aquifer Habitat Conservation Plan.

SARA, 2013, Watershed Monitoring, San Antonio River Authority.

U.S. EPA, 2000, EPA QA/G-4, Guidance for the Data Quality Objectives Process.

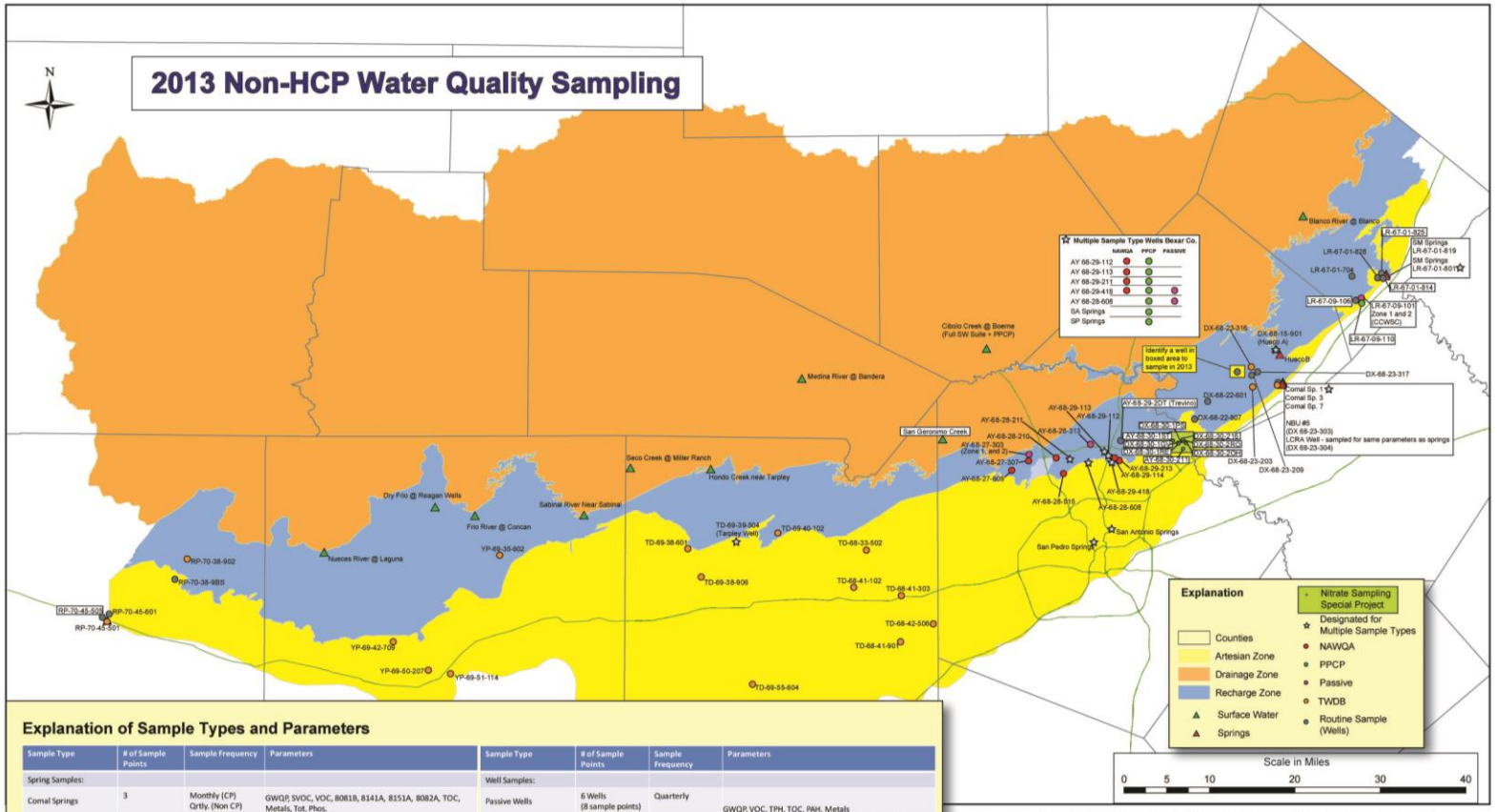
SECTION 9

REFERENCES NOT CITED

Driscoll, F.G., 1995, Groundwater and Wells: St. Paul, Johnson Screens, 1089 p.

Nielsen, D.M., 2006, Environmental Site Characterization and Ground-Water Monitoring: New York, Taylor and Francis, 1318 p.

APPENDIX A—Sample Locations (2013)



Explanation of Sample Types and Parameters

Sample Type	# of Sample Points	Sample Frequency	Parameters
Spring Samples:			
Comal Springs	3	Monthly (CP) Qrtly. (Non CP)	GWQP, SVOC, VOC, 8081B, 8141A, 8151A, 8082A, TOC, Metals, Tot. Phos.
San Marcos Springs	2	Monthly (CP) Qrtly. (Non CP)	GWQP, SVOC, VOC, 8081B, 8141A, 8151A, 8082A, TOC, Metals, Tot. Phos.
Hueco Springs	2	Monthly (CP) Qrtly. (Non CP)	GWQP, SVOC, VOC, 8081B, 8141A, 8151A, 8082A, TOC, Metals, Tot. Phos.
GCSNA Springs	1	Quarterly	GWQP, SVOC, VOC, 8081B, 8141A, 8151A, 8082A, TOC, Metals, Tot. Phos.
Las Moras Springs	1	Annual	GWQP, SVOC, VOC, 8081B, 8141A, 8151A, 8082A, TOC, Metals, Tot. Phos.
San Antonio	1	Quarterly (Flow Dependant)	GWQP, SVOC, VOC, 8081B, 8141A, 8151A, 8082A, TOC, Metals, Tot. Phos.
San Pedro	1	Quarterly (Flow Dependant)	GWQP, SVOC, VOC, 8081B, 8141A, 8151A, 8082A, TOC, Metals, Tot. Phos.

In some cases, San Pedro Springs may be sampled monthly if CP conditions are present and spring is flowing.

Metals Determination Samples will be for comparison of filtered vs un-filtered metals performed on all samples in the TWDB program, such that the TWDB sample is filtered while a secondary sample will be analyzed by EAA as an un-filtered metals sample.

Sample Type	# of Sample Points	Sample Frequency	Parameters
Well Samples:			
Passive Wells	6 Wells (8 sample points)	Quarterly	GWQP, VOC, TPH, TOC, PAH, Metals
NAWQA Wells	1 (per well)	Annual	GWQP, VOC, 8081B, 8141A, 8151A, 8082A, TOC, PAH, Metals
Routine Wells	1 (per well)	Annual	GWQP, VOC, 8081B, 8141A, 8151A, TOC, PAH, Metals
Confirmation Samples	5 (estimated)	As Needed	GWQP, VOC, 8081B, TOC
Nitrate Samples	23	2 X Annually	GWQP, TPH, TOC
Primary Surface Waters*	8	2 X Annually	GWQP, 8081B, 8141A, 8151A, 8082A, TOC, PAH, Metals
Secondary Surface Waters**	2	Annually	GWQP, 8081B, 8141A, 8151A, 8082A, TOC, PAH, Metals
PPCP Samples (Wells, Springs, SW)	17	Annual	Anti-bact., Pharmaceuticals, nonylphenols, steroids/hormones (note: collected w/ additional program)
Contingency	12 (estimated)	As Needed	GWQP, VOC, TPH, TOC, PAH, Kjeldahl, Ammonia
TWDB/Metals Determination	20	Annual	GWQP, VOC, 8081B, 8141A, 8151A, TOC, PAH, Metals (17 wells, 3 springs – Las Moras, Comal, Hueco A)
QA/QC Equip. Blanks	24	As Needed	GWQP, VOC, 8081B, 8141A, 8151A, TOC, PAH, Metals

* Primary Surface Water Sites: Nueces River, Dry Frio River, Frio River, Sabinal, Seco Creek, Hondo Creek, Medina River, Blanco River
** Secondary Surface Water Sites: San Geronimo Creek and Cibolo Creek at Boerne

Notes: PPCP samples are scheduled at these springs: Comal 1, Hueco A, San Antonio, San Marcos Hotel, San Pedro, and GCSNA. PPCP samples are scheduled for these surface water sites: Cibolo Creek at Boerne, and Frio at Concan, and at these wells AY-68-28-211, AY-68-28-608, AY-68-29-112, AY-68-29-113, AY-68-29-418, DX-68-23-316, LR-67-09-101-1, and TD-69-39-504. PPCP samples are scheduled to be collected one time per sample location during the year, in conjuction with one of the other sample programs (see detailed sample collection list for exact requirements at each sample site).

Previous years PPCP sample locations: Comal 1, 2011 and 2012; AY-68-29-112, AY-68-29-113, AY-68-29-418, AY-68-28-608, AY-68-28-211, 2011 and 2012; TD-69-39-504, San Geronimo Creek, Cibolo Creek at Boerne, Hueco A, San Marcos Hotel Spring, and LR-67-09-101-1 all sampled in 2012 only.

In an effort to differentiate metals analyses for filtered vs unfiltered, TWDB wells were chosen as viable locations since the TWDB analyzes many of the same metals as the EAA. Therefore, EAA will submit metals analyses to Test America as non-filtered samples for comparison to the filtered sample collected for and analyzed by the TWDB. This provides a low cost opportunity to conduct this study. This will be conducted for 17 wells and three springs. The TWDB analyses and metals comparison is scheduled for one sample event per TWDB sample site during the year. Some of the selected sites are sampled multiple times under other analytical programs.

This current plan provides for the collection of 90 well samples, from 56 different wells, at various periods over the year. In additon, the plan calls for the collection of QA/QC samples (duplicates, equipment blanks, and trip blanks as needed). Contingency sampling is budgeted for 12 locations, as is confirmation sampling at 5 locations. The budget also allows for approximately $10,000 of additional sampling to be determined in last quarter of the year.

Current document revision date: 2/14/13

Comal Springs HCP Related Sample Points

Analytical Parameter List (HCP)

Surface Water = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Kjeldahl, Metals
Storm Water = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Kjeldahl, Metals
Sediment = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Metals

Notes:
Pesticides = Organochlorine and Organophosphorus;

GWQP = Alkalinity, Bicrbonate, Carbonate, Ca, Mg, Na, K, Chloride, Sulfate, F, Si, Sr, Bromide, Nitrate (as N), pH, TDS, and TSS; as applicable.

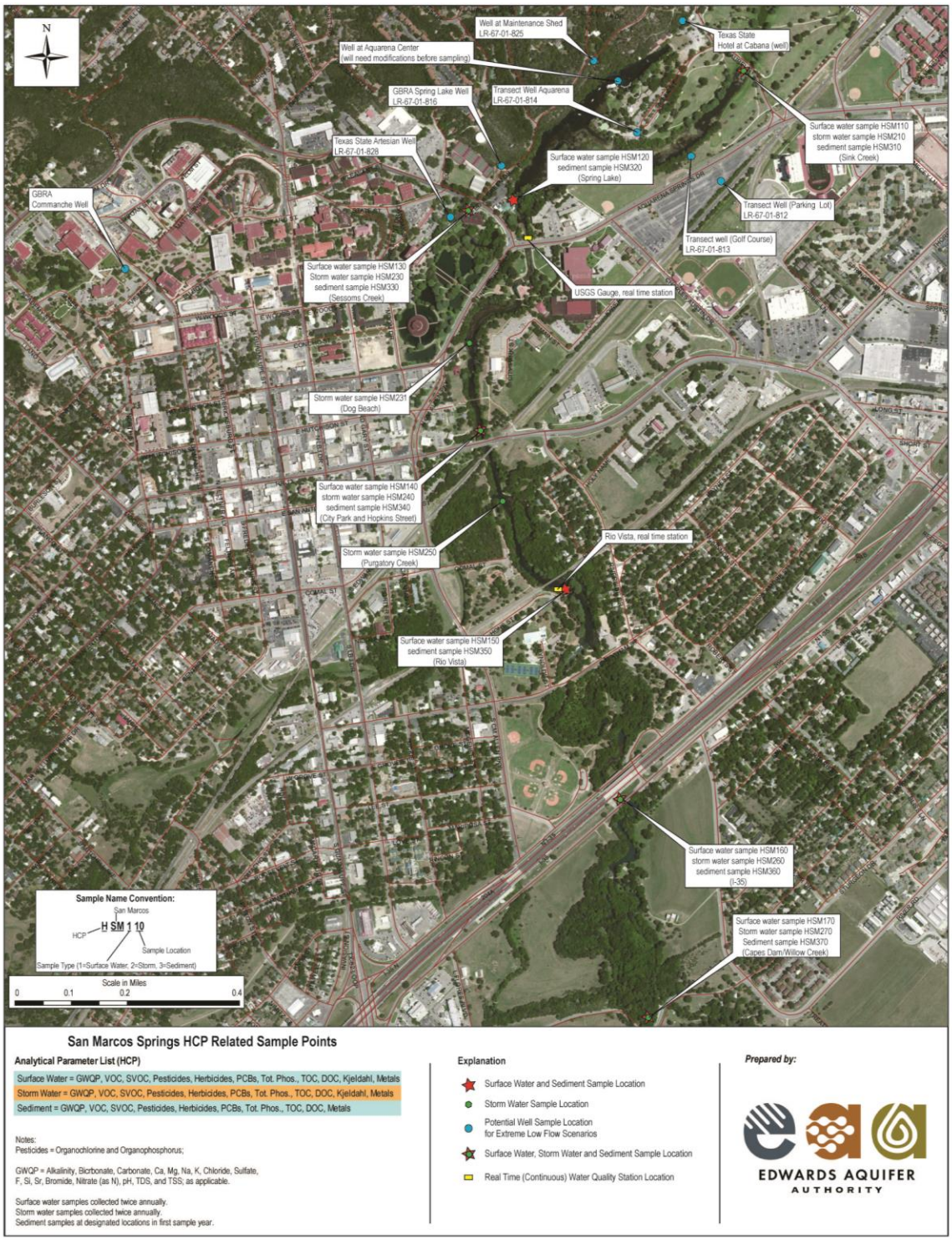
Surface water samples collected twice annually.
Storm water samples collected twice annually.
Sediment samples at designated locations in first sample year.

Explanation

- Surface Water and Sediment Sample Location
- Storm Water Sample Location
- Potential Well Sample Location for Extreme Low Flow Scenarios
- Surface Water, Storm Water and Sediment Sample Location
- Real Time (Continuous) Water Quality Station Location

Prepared by:

EDWARDS AQUIFER AUTHORITY



San Marcos Springs HCP Related Sample Points

Analytical Parameter List (HCP)

Surface Water = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Kjeldahl, Metals
Storm Water = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Kjeldahl, Metals
Sediment = GWQP, VOC, SVOC, Pesticides, Herbicides, PCBs, Tot. Phos., TOC, DOC, Metals

Notes:
Pesticides = Organochlorine and Organophosphorus;

GWQP = Alkalinity, Bicrbonate, Carbonate, Ca, Mg, Na, K, Chloride, Sulfate, F, Si, Sr, Bromide, Nitrate (as N), pH, TDS, and TSS; as applicable.

Surface water samples collected twice annually.
Storm water samples collected twice annually.
Sediment samples at designated locations in first sample year.

Explanation

- Surface Water and Sediment Sample Location
- Storm Water Sample Location
- Potential Well Sample Location for Extreme Low Flow Scenarios
- Surface Water, Storm Water and Sediment Sample Location
- Real Time (Continuous) Water Quality Station Location

Prepared by:

EDWARDS AQUIFER AUTHORITY

APPENDIX B—Glossary of Terms

Ambient blank	Sample known not to contain target analytes, which are used to assess airborne contaminants at the site. The ambient blank [AB] is

	opened at the site and exposed to site (ambient) conditions and subsequently treated as an environmental sample thereafter. AB samples are applicable to VOC analysis only.
Anion	Negatively charged ion.
Aquifer	Underground geological formation or group of formations containing water; source of groundwater for wells and springs.
Cation	Positively charged ion.
DOC	Abbreviation for dissolved organic carbon, a broad classification of organic molecules of varied origin and composition within aquatic systems. Organic carbon compounds are a result of decomposition processes from dead organic matter, such as plants.
DQO	Abbreviation for data quality objectives, a process used to develop performance and acceptance criteria or data quality objectives that clarify study objectives, define the appropriate type of data, and specify tolerable levels of data needed to support decisions.
Equipment blank	Sample used to assess the effectiveness of the decontamination process on sampling equipment. The equipment blank is prepared by pouring reagent-grade water over/through sampling equipment and analyzing for parameters of concern (to match the sampling routine applicable to the site).
Field duplicate	Second sample collected simultaneously from the same source as the parent sample, but which is submitted and analyzed as a separate sample. This sample should generally be identified such that the laboratory is unaware that it is a field duplicate.
Field replicate	Sometimes referred to as a *split sample*, a single sample divided into two (or more) samples.
Groundwater	Water found beneath Earth's surface that fills pores between materials, such as sand, soil, or gravel.
Initial rise	Initial surface runoff of a rainstorm. During this phase, water pollution entering storm drains in areas with high proportions of impervious surfaces is typically more concentrated during first flush than it is during the remainder of the storm.

Matrix spike	Sample used to determine the effect of the matrix on a method's recovery efficiency. A known amount of the target analyte is added to a specified amount of matrix sample for which an independent estimate of the target analyte concentration is available. Duplicate samples must be available as well (matrix spike duplicate, or MSD).
MDL	Abbreviation for method detection limit, minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero, as determined from analysis of a sample containing the analyte in a given matrix.
Peak	Maximum instantaneous flow at a specific location resulting from a given storm condition.
PQL	Abbreviation for practical quantitation limit, which is the smallest concentration of the analyte that can be reported with a specific degree of confidence.
Precision	State or quality of being precise; exactness. The ability of a measurement to be consistently reproduced.
Purge	To remove standing water in a well.
Recession	End of runoff event, which is defined as the point in time when the recession limb of the hydrograph is <two% of the peak or is within ten % of the prestorm base flow, whichever is greater.
Recharge zone	Where an aquifer is replenished with water by the downward percolation of precipitation through soil and rock.
Representative	Said of samples collected that are similar to those of groundwater in its in situ condition.
RL	Abbreviation for reporting limit [RL], the smallest concentration of an analyte reported by the laboratory to a customer. The RL is never less than the PQL and is generally twice the MDL.
Spike sample	One of any known concentrations of specific analytes that have been added to minimize change in the matrix of the original

	sample. Every spike sample analyzed should have an associated reference to the spike solution and the volume added.
Spring	Water coming naturally out of the ground.
Surface water	That which forms and remains above ground, such as lakes, ponds, rivers, streams, bays, and oceans.
SVOC	Abbreviation for semivolatile organic compounds, which is a group of chemicals composed primarily of carbon and hydrogen that have a tendency to evaporate (volatilize) into the air from water or soil. Some of the compounds that make up asphalt are examples of SVOCs.
TDS	Abbreviation for total dissolved solids, or the total amount of all inorganic and organic substances, including minerals, salts, metal, cations, or anions that are dispersed within a volume of water.
Temporal	Over a period of time.
TKN	Abbreviation for total kjeldahl nitrogen, which is the total concentration of organic and ammonia nitrogen in wastewater.
TOC	Abbreviation for total organic carbon, which is the gross amount of organic matter found in natural water. Suspended-particulate, colloidal, and dissolved organic matter are part of the TOC measurement. Settable solids consisting of inorganic sediments and some organic particulate are not transferred from the sample by the lab analyst and are not part of the TOC measurement.
Trip blank	Sample known to be free of contamination (for target analytes) that is prepared in the laboratory and treated as an environmental sample after receipt by the sampler. Trip blank [TB] samples are applicable to VOC analysis only.
TSS	Abbreviation for total suspended solids, which are the nonfilterable residue retained on a glass-fiber disk filter mesh measuring 1.2 micrometers after filtration of a sample of water or wastewater.
VOC	Abbreviation for volatile organic compounds, which are often used as solvents in industrial processes and are either known or suspected carcinogens or mutagens. The five most toxic are vinyl

	chloride, tetrachloroethylene, trichloroethylene, 1,2-dichloroethane, and carbon tetrachloride.
Well	Bored, drilled, or driven shaft whose purpose is to reach underground water supplies.

APPENDIX C—Equipment Use and Calibration

DOCUMENTATION PROCEDURES

All equipment maintenance and calibration must be documented in the laboratory notebook kept at the EAA Camden Building. This documentation is an important part of ensuring that data-collection results are "defensible." Calibration details, equipment type, date, calibration statement, and sampler's signature must appear in the book for each day that the equipment is used.

EAA currently uses the YSI 556 MPS field instrument to collect pH, DO, conductivity, and temperature at each sample point. Calibration procedures for this instrument are detailed next.

CALIBRATION PROCEDURES

Calibration Procedures for YSI 556 MPS

Accessing the Calibrate Screen

1. Press the **On/Off** key to display the run screen.
2. Press the **Escape** key to display the main menu screen.
3. Use the arrow keys to highlight the **Calibrate** selection

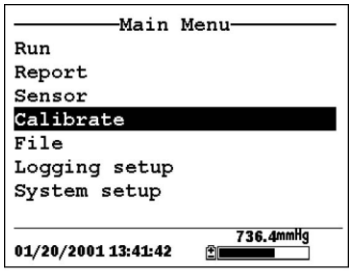


Figure 6.1 Main Menu

4. Press the **Enter** key. The Calibrate screen will be displayed.

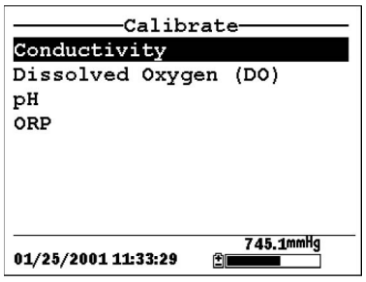


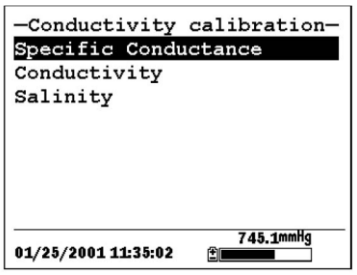
Figure 6.2 Calibrate Screen

Conductivity Calibration

This procedure calibrates specific conductance (recommended), conductivity, and salinity.

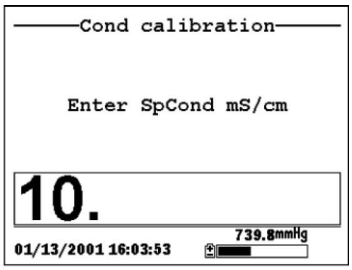
Calibrating any one option automatically calibrates the other two.

1. Go to the Calibrate screen
2. Use the arrow keys to highlight the **Conductivity** selection.
3. Press **Enter**. The Conductivity Calibration Screen is displayed.



Conductivity Calibration Selection Screen

4. Use the arrow keys to highlight the Specific Conductance selection.
5. Press **Enter**. The Conductivity Calibration Entry Screen is displayed.



Conductivity Calibration Selection Screen

6. Place the correct amount of conductivity standard into a clean, dry or pre-rinsed transport/calibration cup.

WARNING: Calibration reagents may be hazardous to health. See information on label.

NOTE: For maximum accuracy, the conductivity standard you choose should be within the same conductivity range as the samples you are preparing to measure. However, we do not recommend using standards less than one mS/cm. For example:

- For freshwater use a one-mS/cm conductivity standard.
- For brackish water use a ten-mS/cm conductivity standard.
- For seawater use a 50-mS/cm conductivity standard.

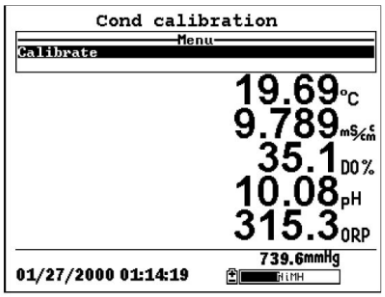
NOTE: Before proceeding, ensure that the sensor is as dry as possible. Ideally, rinse the conductivity sensor with a small amount of standard that can be discarded. Be certain that cross-contamination of solutions be avoided. Make certain that no salt deposits are around the oxygen pr pH/ORP sensors, particularly if standards of low conductivity are being employed.

7. Carefully immerse the sensor end of the probe module into the solution.
8. Gently rotate and/or move the probe module up and down to remove any bubbles from the conductivity cell.

   NOTE: The sensor must be completely immersed past its vent hole. Using the recommended volumes and ensure that the vent hole is covered.
9. Screw the transport/calibration cup onto the threaded end of the probe module and securely tighten.

   NOTE: Do not over tighten because doing so could damage the threaded parts.
10. Use the keypad to enter the calibration value of the standard being used.

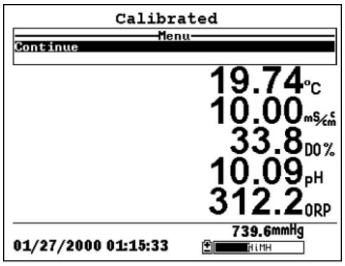
    NOTE: Be sure to enter the value in **mS/cm at 25°C**.
11. Press **Enter**. The Conductivity Calibration Screen is displayed.



Conductivity Calibration Screen

12. Allow at least one minute for temperature equilibration before proceeding. The current values of all enabled sensors will appear on the screen and will change with time as they stabilize.

13. Observe the reading under Specific Conductance. When the reading shows no significant change for approximately 30 seconds, press **Enter**. The screen will indicate that the calibration has been accepted and prompt pressing of **Enter** again to Continue.



Calibrated

14. Press **Enter** to return to the Conductivity Calibrate Selection Screen

15. Press **Escape** to return to the Calibrate menu. See Figure 6.2 Calibrate Screen.

16. Rinse the probe module and sensors in tap or purified water and dry.

Dissolved Oxygen Calibration

This procedure calibrates dissolved oxygen. Calibrating any one option (% or mg/L) automatically calibrates the other.

1. Go to the calibrate screen as described in Section *6.2.1 Accessing the Calibrate Screen*.

   NOTE: The instrument must be on for at least 10 to 15 minutes to polarize the DO sensor before calibrating.

2. Use the arrow keys to highlight the **Dissolved Oxygen** selection. See Figure 6.2 Calibrate Screen.
3. Press **Enter**. The Dissolved Oxygen Calibration Screen is displayed.

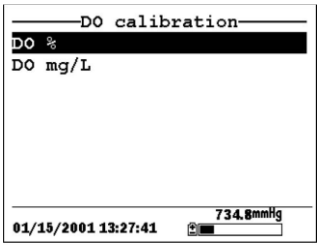


Figure 6.7 DO Calibration Screen

DO Calibration in Percent Saturation

1. Use the arrow keys to highlight the DO% selection.

2. Press **Enter**. The DO Barometric Pressure Entry Screen is displayed.

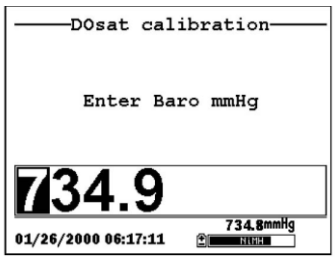


Figure 6.8 DO Barometric Pressure Entry Screen

3. Place approximately 3 mm (⅛ inch) of water in the bottom of the transport/calibration cup.

4. Place the probe module into the transport/calibration cup.

   NOTE: Ensure that the DO and temperature sensors are **not** immersed in the water.

5. Engage only one or two threads of the transport/calibration cup to ensure that the DO sensor is vented to the atmosphere.
6. Use the keypad to enter the current local barometric pressure.

   NOTE: If the unit has the optional barometer, no entry is required.

   NOTE: Barometer readings that appear in meteorological reports are generally corrected to sea level and must be uncorrected before use

7. Press **Enter**. The DO% Saturation Calibration screen is displayed.

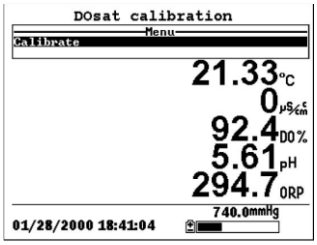


Figure 6.9 DO Sat Calibration Screen

8. Allow approximately ten minutes for the air in the transport/calibration cup to become water saturated and for the temperature to equilibrate before proceeding.

9. Observe the reading under DO %. When the reading shows no significant change for approximately 30 seconds, press **Enter**. The screen will indicate that the calibration has been accepted and prompt pressing of **Enter** again to Continue. See Figure 6.6 Calibrated.

10. Press **Enter** to return to the DO Calibration Screen, See Figure 6.7 DO Calibration Screen.

11. Press **Escape** to return to the calibrate menu. See Figure 6.2 Calibrate Screen.

12. Rinse the probe module and sensors in tap or purified water and dry.

pH Calibration

1. Go to the Calibrate Screen as described in *Section 6.2.1 Accessing the Calibrate Screen*.

2. Use the arrow keys to highlight the **pH** selection. See Figure 6.2 Calibrate Screen.

3. Press **Enter**. The pH Calibration screen is displayed.

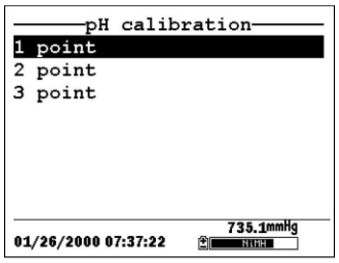


Figure 6.12 pH Calibration Screen

4. Select the **one-point** option only if adjusting a previous calibration. If a two-point or three-point calibration has been performed previously, the calibration can be adjusted by carrying out a one-point calibration. The procedure for this calibration is the same as for a two-point calibration, but the software will prompt a selection of only one pH buffer.

5. Select the **two-point** option to calibrate the pH sensor using only two calibration standards. Use this option if the media being monitored is known to be either basic or acidic. For example, if the pH of a pond is known to vary between 5.5 and seven, a two-point calibration with pH seven and pH four buffers is sufficient. A three-point calibration with an additional pH ten buffer will not increase the accuracy of this measurement because the pH is not within this higher range.

6. Select the **three-point** option to calibrate the pH sensor using three calibration solutions. In this procedure, the pH sensor is calibrated with a pH seven buffer and two additional buffers. The three-point calibration method assures maximum accuracy when the pH of the media to be monitored cannot be anticipated. The procedure for this calibration is the same as for a two-point calibration, but the software will prompt a selection of a third pH buffer.

7. Use the arrow keys to highlight the **two-point** selection.

8. Press **Enter**. The pH Entry Screen is displayed.

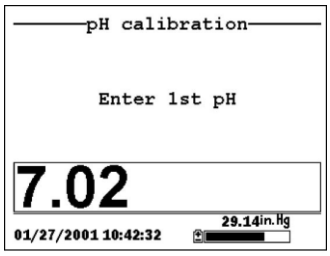


Figure 6.13 pH Entry Screen

9. Place the correct amount (see Table 6.1 Calibration Volumes) of pH buffer into a clean, dry, or prerinsed transport/calibration cup.

NOTE: Always calibrate with buffer seven first, regardless of whether performing a one-, two-, or three-point calibration.

WARNING: Calibration reagents may be hazardous to health. See reagent label for more information.

NOTE: For maximum accuracy, the pH buffers chosen should be within the same pH range as the water being prepared for sampling.

NOTE: Before proceeding, ensure that the sensor is as dry as possible. Ideally, rinse the pH sensor with a small amount of buffer that can be discarded. Be certain to avoid cross-contamination of buffers with other solutions.

10. Carefully immerse the sensor end of the probe module into the solution.
11. Gently rotate and/or move the probe module up and down to remove any bubbles from the pH sensor.

    NOTE: The sensor must be completely immersed. Using the recommended volumes from Table 6.1 Calibration Volumes should ensure that the sensor is covered.
12. Screw the transport/calibration cup onto the threaded end of the probe module and securely tighten.

    NOTE: Do not overtighten because doing so could damage the threaded parts.
13. Use the keypad to enter the calibration value of the buffer being used **at the current temperature**.

    NOTE: pH vs. temperature values are printed on the labels of all YSI pH buffers.
14. Press **Enter**. The pH Calibration Screen is displayed.

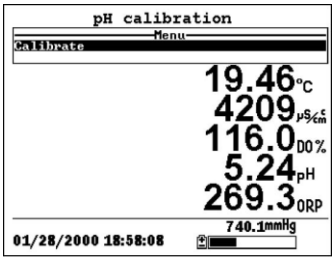


Figure 6.14 pH Calibration Screen

15. Allow at least one minute for temperature equilibration before proceeding. The current values of all enabled sensors will appear on the screen and will change with time as they stabilize.

16. Observe the reading under pH. When the reading shows no significant change for approximately 30 seconds, press **Enter**. The screen will indicate that the calibration has been accepted and prompt **Enter** to be pressed again to continue.
17. Press **Enter** to return to the specified pH Calibration Screen, See Figure 6.13 pH Entry Screen.
18. Rinse the probe module, transport/calibration cup, and sensors in tap or purified water and dry.
19. Repeat steps 6 through 13 using a second pH buffer.
20. Press **Enter** to return to the pH Calibration Screen. See Figure 6.12 pH Calibration Screen.
21. Press **Escape** to return to the Calibrate menu. See Figure 6.2 Calibrate Screen.
22. Rinse the probe module and sensors in tap or purified water and dry.

Return to Factory Settings.

1. Go to the Calibrate screen as described in Section *6.2.1 Accessing the Calibrate Screen*.
2. Use the arrow keys to highlight the **Conductivity** selection. See Figure 6.2 Calibrate Screen.

   NOTE: We will use the Conductivity sensor as an example; however, this process will work for any sensor.

3. Press **Enter.** The Conductivity Calibration Selection Screen is displayed. See Figure 6.3 Conductivity Calibration Selection Screen.
4. Use the arrow keys to highlight the **Specific Conductance** selection.
5. Press **Enter.** The Conductivity Calibration Entry Screen is displayed. See Figure 6.4 Conductivity Calibration Entry Screen.
6. Press and hold the **Enter** key down, and press the **Escape** key.

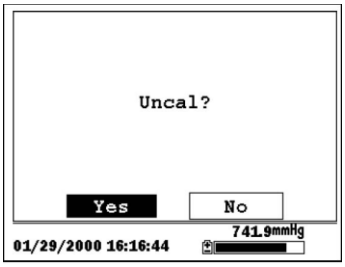


Figure 6.17 ORP Calibration Screen

7. Use the arrow keys to highlight the **YES** selection.

   CAUTION: Pressing **YES** returns a sensor to the factory settings. For example, in the selection to return specific conductance to the factory setting, salinity and conductivity will automatically return to their factory settings.

8. Press **Enter** to return you to the Conductivity Calibrate Selection Screen. See Figure 6.3 Conductivity Calibration Selection Screen. .
9. Press **Escape** to return to the Calibrate menu. See Figure 6.2 Calibrate Screen.

HACH Digital Titrator (for Alkalinity) Primary Method

Titrations are performed using the HACH digital titrator. This instrument provides precise results when properly operated.

Basic Operation

1. Select a sample volume and titration cartridge corresponding to the expected sample concentration.
2. Insert the cartridge into the titrator slide and lock it into place with the plunger. Remove the polyethylene cap from the cartridge and insert a clean delivery tube into the end of the cartridge. (Note: use a straight tube with a hook on the end for hand-held titrations and a 90° tube with a hook at the end for stationary setups.
3. To start the titrant flow, hold the tip of the cartridge upward while turning the delivery knob until the air is expelled and several drops of solution flow from the tip of the delivery tube.
4. Use the counter reset knob (the smaller of the two knobs) to set the digital counter back to zero, then blot any titrant from the delivery tube.
5. Proceed with titration by submerging the tip of the delivery tube into the sample and turning the delivery knob to dispense the titrant. (Note: during the titration process, samples must be continuously stirred either manually or with the magnetic stirrer)

Calculations

HACH titration cartridge solutions are designed to give those numbers used in the titrations (reading from the digital meter) to be actual sample concentration in mg/L, or they are marked with conversion factors. If in the process of sample preparation, the amount of SAMPLE becomes less than 100 mL, the titration number must be multiplied by the divisional factor. For example, if the intended 100-mL sample is reduced to 25 mL (¼ of 100 mL) during the sample-preparation process, then the final result must be multiplied by 4 (25 mL × 4 = 100 mL) to obtain the result.

General Maintenance

1. For long-term storage the delivery tube should be removed, the polyethylene cap reattached, and the cartridge removed from the titrator body. DO NOT attempt to remove the cartridge from the titrator without recapping.
2. After use and removal from the cartridges, rinse the delivery tubes with deionized water to prevent clogging.

The titration process should be checked monthly by titration of a standard solution and recorded in the laboratory notebook. Acceptable results are obtained if the titration is within ±3% of the standard solution.

Alkalinity Determination Using the HACH Digital Titrator
Alkalinity of water is defined by its acid-neutralizing capacity. Once a sample has been collected, geochemical changes can alter the sample's alkalinity. Therefore, alkalinity samples are to be analyzed in the field or immediately upon returning to the EAA laboratory.

Procedure
Sample alkalinity is determined by titration with sulfuric acid to a pH of 4.5 and includes all carbonate, bicarbonate, and hydroxide present within the sample. Values are recorded as mg/L calcium carbonate.

1. Follow the steps outlined in HACH digital titrator usage, with the sulfuric acid cartridge as the active titrant and the 90° delivery tube as a stationary setup.
2. Set up the HACH titrator unit and attach the digital titrator to the rotational holder and clamp securely.
3. The pH and temperature probes should also be connected to the titrastir at the end of the rotational holder. For best results, attempt to have the ends of the delivery tube, pH probe, and temperature probe at the same level.
4. Rinse a 25-mL pipette three times with deionized water and then three times with the sample water to be tested. Pipette 25 mL of this sample into a clean 50-mL beaker. Record this amount on the corresponding field sheet.
5. Place the beaker on the stir plate, put a stir bar in the beaker, and turn on the stirring function.
6. Rotate the titrastir arm toward the sample beaker, submerging the probes and delivery tube. Note: ensure that the titrator counter is reset to zero and the outside of the delivery tube is free of sulfuric acid before submerging.
7. Turn on the pH meter and record the stabilized pH reading of the sample. Record this value on the corresponding field data sheet.
8. Titrate by turning the delivery knob until the pH is reduced to 4.5, which is the endpoint, and the amount of titrant used should be recorded.
9. Calculate the alkalinity by multiplying the amount of titrant used by the dilution factor, and record on the appropriate field data sheet.

Collect a second alkalinity sample every ten samples as a field duplicate, and analyze as outlined above. The field duplicate percent difference should not exceed ±5%, where %D is defined as

$$[(X1 - X2) / X1] \times 100 = \%D \text{ (X1 = original sample, X2 = duplicate sample)}$$

(see next page for additional alkalinity procedures)

Additional Procedures for Alkalinity Analyses, University of Minnesota Methodology (to be incorporated into the EAA methodology)

Good Titration Practices

Aliquot Measurement

- Sample aliquots should be measured with the most accurate method available.
- Rinse the volumetric flask with sample water.
- Never rinse the titration flask with sample water.
- Rinse the titration flask with De-Ionized water between samples and air dry (glass) or shake dry (PMP plastic).
- An electronic balance is preferred over a volumetric flask is preferred over a graduated cylinder.
- A 0.1g scale is comparable to a volumetric flask.
- An electronic balance allows the size of sample aliquots to be varied.
- An electronic balance allows aliquot size to be reduced in high alkalinity samples which reduces titration time.

Titration Equipment

- Digital titrator should be periodically lubricated.
- Titrant cartridges must be kept tightly capped to prevent evaporation.
- Old, partially used titrant cartridges should be replaced.
- Don't try to use every drop of acid in the titrant cartridge - when it gets low start a new cartridge.
- Delivery tubes should be flushed with fresh titrant before use and rinsed after use.
- A magnetic stirrer (battery powered for field use) helps ensure thorough mixing.

Titration Procedures

- All chemical analyses should be replicated.
- Titrations are done in triplicate to allow comparison of results ensuring that reproducible results are obtained.
- Replicates that vary by more than two percent indicate interference or analytic error.
- Real time analysis of the results allows additional titrations and/or a change in procedure to identify the sources of the interference or error.
- Work consistently and quickly to limit degassing and precipitation in your sample bottle.
- Add acid uniformly to each aliquot as if performing the first titration.

Colorimetric

- Bromcresol Green / Methyl Red indicator dyes.
- pH 4.8 to 4.5 buffer solutions.
- Adding acid too quickly and incomplete equilibration will produce irregular results.
- Use buffered indicator solutions to define endpoint.
- Relies on human color interpretation.

Potentiometric

pH Endpoint

- Meter calibration is critical.
- Adding acid too quickly and incomplete equilibration will produce irregular results.
- Must allow for solution equilibration and meter stabilization.
- Uses one data point to determine endpoint.

ΔpH/Δv acid

- Must be done in uniform steps through the endpoint.
- Adding acid too quickly and incomplete equilibration will produce irregular results.
- Organics may shift endpoint.
- Uses two data points to determine endpoint.

Figure 1 shows a typical "S" shaped titration curve. The inflection point represents the true alkalinity of the sample and may not occur at exactly pH 4.5.

Gran Titration

- Uses many data points.
- Must be carried well past the endpoint.
- Requires graphical interpretation or linear regression.
- Adding acid too quickly and incomplete equilibration will produce non-linear trend.
- Presence of organics will produce non-linear trends.
- Least susceptible to operator error or chemical interference but should still be backed up by replicate measurements - replicate may be by colorimetric or potentiometric methods.

To calculate the alkalinity, use the formula $(V_{aliquot} + V_{titrant}) \times 10^{(4.65-pH)}$ to plot an ascending line after the endpoint with apparent alkalinity on the x-axis; $V_{aliquot}$ in ml, $V_{titrant}$ = titrator digits/800 and 4.65 is the assumed endpoint. A linear regression can then be used to calculate an x-intercept. Use only the points well after the endpoint to get the best regression as shown in Figure 2.

Common Interferences

- Highly colored waters
  Organic-rich waters with humic and fulvic acids.
  Often have low pH and correspondingly low alkalinity.

Solutions
  Perform Gran Titration - by extrapolating from points below pH 4.5 a fairly precise determination of alkalinity can be made.

  Add a second packet of indicator dye to intensify green and red colors.

- Chlorinated waters
  Color change at endpoint goes form green to yellow.

Solution: Add 5 drops and 2N Sodium Thiosulfate to scavenge any free chlorine before titrating.

- Clay-rich waters
  Colors of indicators are "off" often tending towards an orange endpoint.
  Commonly associated with poorly developed monitoring wells.

Solution: Filter the sample before titrating.

- Muddy waters
  Suspended sediment may contain carbonates or clays that could react with the acid titrant.
  Thick sediment may mask the color changes.

Solution: Filter the sample, preferably after allowing sediment to settle.

References

Determination of the Equivalent Point in Potentiometric Titrations, 1950, Gunnar Gran, Acta Chemica Scandinavica, pp 559-577.

Determination of the Equivalence Point in Potentionmetric Titrations - Part II, 1952, Gunnar Gran, The Analyst, International Congress on Analytical Chemistry, V. 77, pp 661-671.

Field Guide for Collecting and Processing Stream-Water Samples for the National Water-Quality Assessment Program, Larry R. Shelton, 1994, U.S. Geological Survey Open-File Report 94-455, 42 pp.

Field and Laboratory Methods, 1998, Scott C. Alexander and E.C. Alexander Jr., Hydrogeochemistry Lab, Dept. of Geology & Geophysics, Univ. of Minnesota, 21 pp.

EPA Method 310.1: Alkalinity determination to a colorimetric end-point.

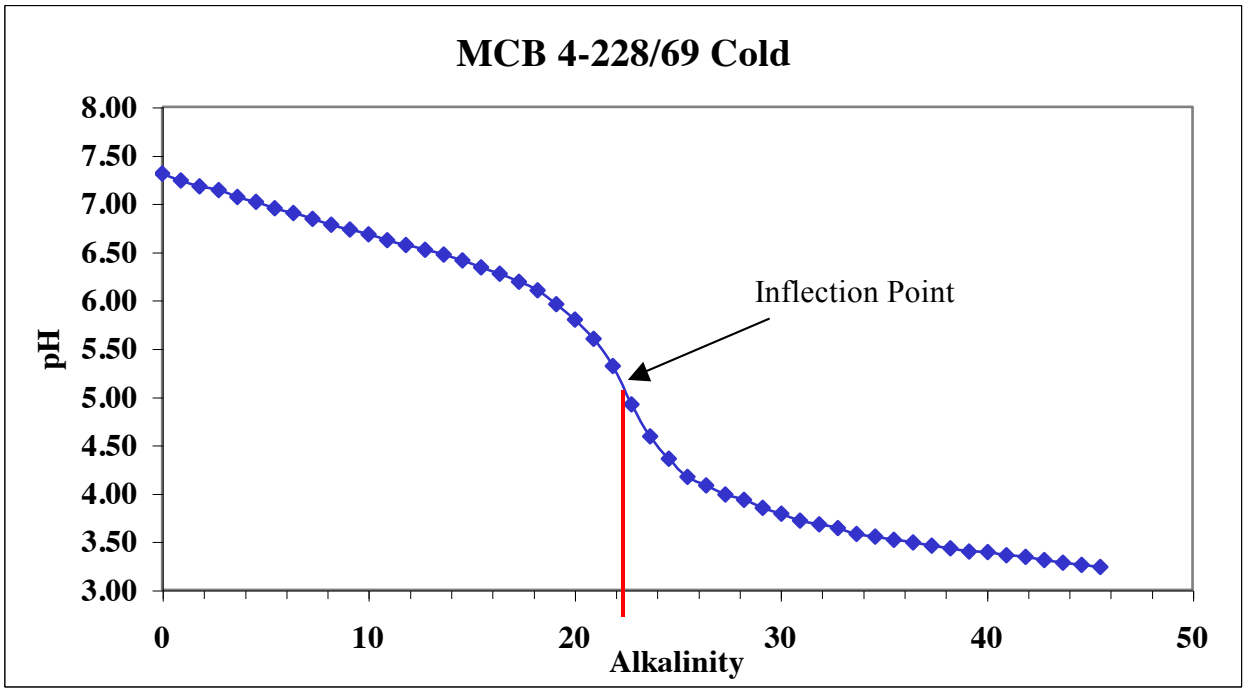


Figure 1. Example of pH titration

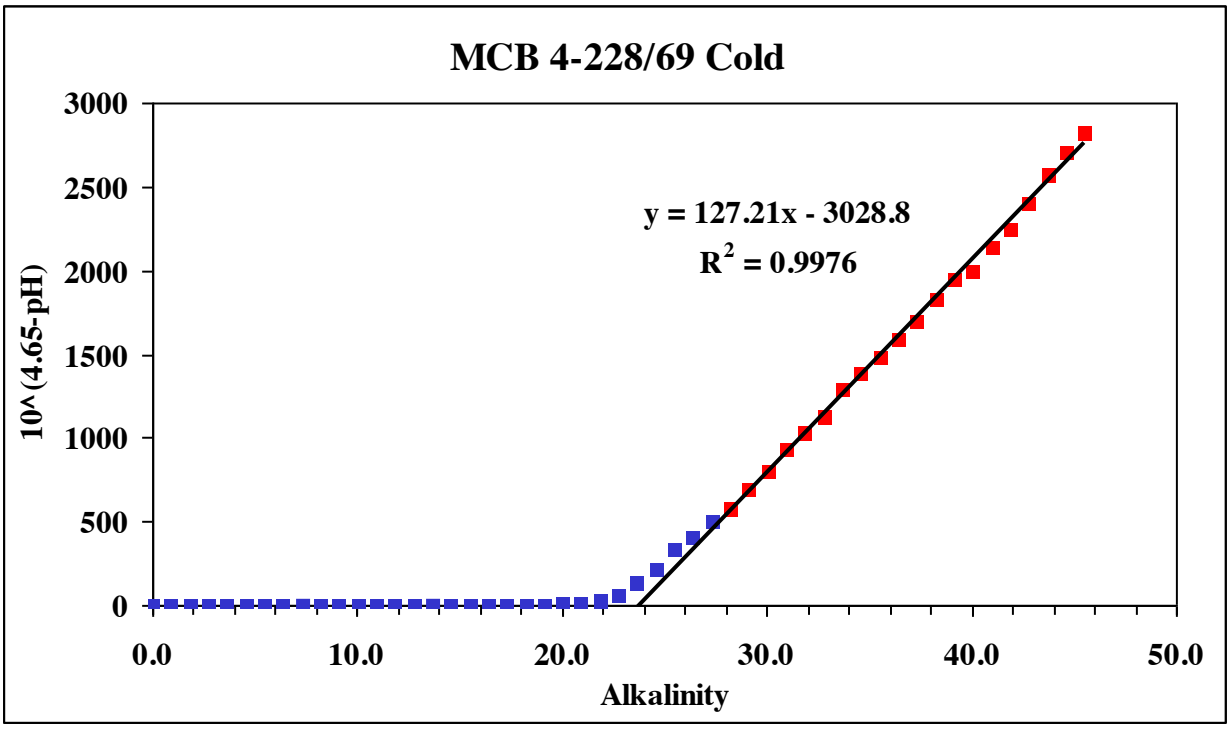


Figure 2. Example of Gran Titration

Use of the DR2800 Portable Spectrophotometer for Alkalinity Measurements (Secondary Method for Alkalinity Determination)

EAA currently uses the DR2800 Portable Spectrophotometer for measuring alkalinity values of samples in the event the Hach Digital Titrator is not available. Measurements are made at the EAA Camden building following the field sample-collection event. All measurements are to be recorded in the alkalinity notebook and on the field sheet. Operation procedures for this instrument are detailed next.

Alkalinity, Total DOC316.53.01257

Colorimetric Method **Method 10239**

25 to 400 mg/L $CaCO_3$ **TNTplus™ 870**

Scope and Application: For drinking water, wastewater and boiler water.

Test preparation

Before the test:

DR 2800 only: Install the light shield in Cell Compartment #2 before performing this test.

Read the safety advice and expiration date on the package.

The recommended sample and reagent temperature is 15–25 °C (59–77 °F).

The recommended reagent storage temperature is 15–25 °C (59–77 °F).

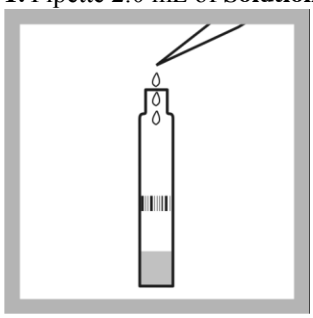
TNTplus™ methods are activated from the Main Menu when the sample vial is inserted into the sample cell holder.

Collect the following items:

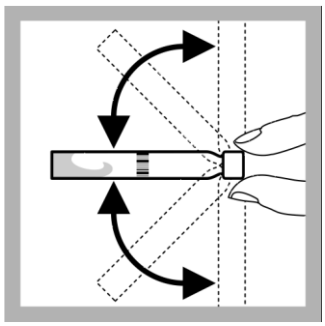
Description	Quantity
Total alkalinity TNT870 vials	variable
Light shield (DR 2800 only)	1
Pipette for 2.0-mL sample	1
Pipette for 0.5-mL sample	1
Pipette tips	variable

TNTplus™ method

1. Pipette 2.0 mL of **Solution A** into test vial.

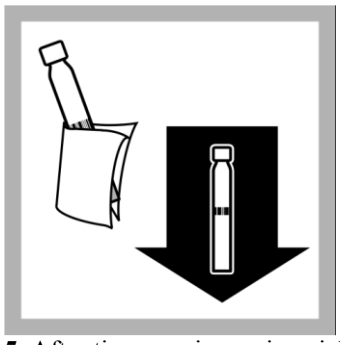


2. Pipette 0.5 mL of sample into vial.



3. Cap and invert vial until contents are well mixed.

4. Wait 5 minutes.



5. After timer expires, wipe vial and insert it into cell holder. Instrument reads barcode, selects method, and make measurement. No instrument zero required.
Results are in mg/L $CaCO_3$.

Interferences

If samples contain particles, remove the particles by filtration through a 0.45-µm filter.

Sample collection, preservation, and storage

• Collect samples in clean plastic or glass bottles. Fill completely and cap tightly.

• Prevent excessive agitation or prolonged exposure to air. Complete the test procedure as soon as possible after collection for best accuracy.

• The sample can be stored for 24 h if cooled to 4 °C (39 °F) or below. Warm to room temperature before the test begins.

Accuracy check

Standard solution method
required for accuracy check:

• Alkalinity Voluette® Ampule Standard Solution, 25,000 mg/L $CaCO_3$ (0.500 N)

• Ampule breaker

• Variable-volume pipette

• Pipette tips

• 100-mL volumetric flask, Class A

• Deionized water

1. Prepare a 250-mg/L $CaCO_3$ standard solution as follows:

a. Pipette 1.0 mL of alkalinity standard solution, 25,000 mg/L as $CaCO_3$, into a clean 1.0-mL volumetric flask.

b. Dilute to the mark with deionized water. Mix well. Prepare this solution daily.

2. Use this solution in place of the sample. Follow the TNTplus™ method test procedure. The result should be within 10% of the expected value.

Summary of method

Carbonates and other buffers react with the reagent in the vial to change the pH. The pH affects the color of the indicator, which is measured photometrically at 615 nm.

Calibration Procedures for Backup Instruments

The following pages contain a discussion of proper use of "backup" instrumentation owned by the EAA, but not in regular use. These instruments may be utilized during a contingency sampling event, or in the case where newer instrumentation is not available due to damage or other issues.

Calibration Procedures for Luminescent Dissolved Oxygen Probe Model LDO10101 with HQ30d Meter

Before calibration:

The probe must have the correct service-life time stamp. Set the date and time in the meter before the probe is attached.

It is not necessary to recalibrate when moving a calibrated probe from one HQd meter to another if the additional meter is configured for the same calibration options.

To view the current calibration, push Select View Probe Data, then select View Current Calibration.

If any two probes are connected, push the **UP** or **DOWN** arrow to change to the single display mode in order to show the Calibrate option.

Calibration notes:

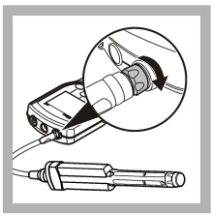
• % saturation or mg/L calibration methods are available in the Modify Current Settings menu.

• Slope value is the comparison between the latest calibration and the factory calibration shown as a percentage.

• Calibration is recorded in the probe and the data log. Calibration is also sent to a PC, printer, or flash memory stick if connected.

• Air bubbles under the sensor tip when submerged can cause slow response or error in measurement. If bubbles are present, gently shake the probe until bubbles are removed.

Water-saturated air (100%) calibration procedure:

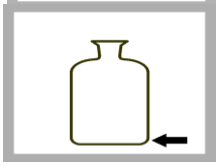


1. Connect the probe to the meter. Ensure that the cable locking nut is securely connected to the meter. Turn on the meter.

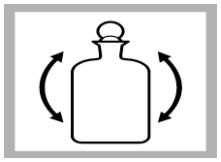
2. Push **Calibrate**.

3. Push **Methods**. Select User Cal-100%. Push **OK**.

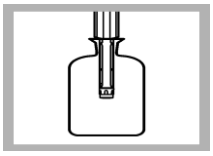
4. Rinse the probe cap with deionized water. Blot dry with a lint-free cloth.



5. Add approximately ¼ inch (6.4 mm) of reagent water to a narrow-neck bottle, such as a BOD bottle.



6. Put a stopper in the bottle and shake the bottle vigorously for approximately 30 seconds to saturate the entrapped air with water. Allow up to 30 minutes for contents to equilibrate to room temperature.



7. Remove the stopper. Carefully dry the probe cap using a nonabrasive cloth. Put the probe in the bottle.

8. Push **Read**. The display shows "Stabilizing" as the probe stabilizes. The display shows the standard value when the reading is stable.

9. Push **Done** to view the calibration summary.

10. Push **Store** to accept the calibration and return the measurement mode. If a rugged probe, install the shroud on the probe.

Calibration Procedures for Conductivity Model 5197500 or 5197503 with sensION ™ 5 (Backup Instrumentation)

Before the test:

Collect samples in clean plastic or glass bottles.

Analyze samples as soon as possible after collection. However, samples may be stored at least 24 h by cooling to 4 °C (39 °F) or below (all storage temperatures have changed to 0 to 6 °C as per the EPA MUR, March 2007). When solutions are measured that are not at reference temperature, the meter automatically adjusts the conductivity value to reference temperature from 20 or 25 °C.

Water samples containing oils, grease, or fats will coat the electrode and affect the accuracy of the readings. If this coating occurs, clean the probe with a strong detergent solution, then thoroughly rinse with deionized water.

Mineral buildup on the probe can be removed with a diluted 1:1 hydrochloric acid solution. Refer to the meter user's manual.

Calibration instructions are given in the operation section of the meter manual. For most accurate results, calibrate before use or check the accuracy of the meter using a known conductivity standard.

Calibrating with a Known Standard

1. Place the probe in a conductivity standard that is in the expected range of the samples. On the meter, choose one of four ranges that corresponds to the sample range. Agitate the probe to dislodge bubbles in the cell. Avoid resting the probe on the bottom or sides of the container.

2. Press **CAL**. Functional keys will appear in the lower-left part of the display. **CAL?** and **1.000 1/cm** will appear in the upper display. If the meter has been calibrated, the last calibration value will appear. The numeric keypad will become active.

3. Press the arrow keys to scroll to the factory-calibration options (1000 µS/cm or 18 mS/cm). To calibrate using one of

these standards, press **ENTER**.

4. If using a standard with a different value, use the number keys to enter the standard conductivity at 25 °C, then press **ENTER**. The meter will automatically correct the calibration measurement to 25 °C using the NaCl-based, non-linear temperature coefficient.

   If the standard has a value of 25 °C in the µS/cm range, enter the value when 1000 µS/cm is displayed. If the standard has a value of 25 °C in the mS/cm range, enter the value when 18 mS/cm is displayed. All four places have a number entered in them. If a number entry error occurs, start over by pressing **SETUP/CE.**

5. When the reading is stable, the calibration is automatically stored, and the instrument returns to reading mode.

Calibration Procedures for Turbidimeter

Note: *for best accuracy, use the same sample cell of four matched sample cells for all measurements during calibration. Always insert the cell so that the orientation mark placed on the cell during the matching procedure is correctly aligned.*

Calibration

1. Rinse a clean sample cell with dilution water several times. Then fill the cell to the line (~15 mL) with dilution water or use StablCal <0.1 NTU standard. *Note: the same dilution water used for preparing the standards must be used in this step.*

2. Insert the sample cell in the cell compartment by aligning the orientation mark on the cell with the mark on the front of the cell compartment. Close the lid, and press **I/O**. *Note: choose signal average mode option (on or off) before pressing CAL— the SIGNAL AVERAGE key in calibration mode.*

3. Press **CAL.** The CAL and S0 icons will be displayed and will flash. The four-digit display will show the value of the S0 standard for the previous calibration. If the blank value were forced to 0.0, the display would be blank (as shown.) Press → for a numerical display.

Hach Company recommends the use of StableCal ® Stabilized Formazin or formazin standards only for the calibration of Hach turbidimeters. **Hach Company cannot guarantee the performance of the turbidimeter if calibrated with co-polymer styrene divinlybenzene beads of other suspension. DO NOT calibrate with Gelex® Secondary Standards.**

4. Press **READ.** The instrument will count from 60 to 0 (67 to 0 if signal average is on), read the blank, and use it to calculate a correction factor for the 20 NTU standard measurement. If the dilution water is less than or equal to 0.5 NTU, E 1 will appear when the calibration is calculated. The display will automatically increment to the next standard. Remove the sample cell from the cell compartment. *Note: turbidity of the dilution water can be "forced" to zero by pressing → rather than reading the dilution water. The display will show S0 NTU, and the up arrow key must be pressed to continue with the next standard.*

5. The display will show the S1 (with the 1 flashing) and 20 NTU, or the value of the S1 standard for the previous calibration. If the value is incorrect, edit the value by pressing the → key until the number that needs editing flashes. Use the up arrow key to scroll to the correct number. After editing, fill a clean sample cell to the line with well-mixed 20 NTU StablCal Standard of 20 NTU formazin standard. Insert the sample cell compartment by aligning the orientation mark on the cell with the mark on the front of the cell compartment. Close the lid.

6. Press **READ.** The instrument will count from 60 to 0 (67 to 0 if signal average is on), measure the turbidity, and store the value. The display will automatically increment to the next standard. Remove the sample cell from the cell compartment. *Note: for potable water applications with low turbidity values, instrument calibration may be stopped after the 20 NTU StablCal Standard has been read. Pres **CAL** after reading the 20-NTU standard. Instrument calibration is now complete for the range of 0–20 NTU only. The instrument will continue to read turbidity values above 20 NTU. These values were not updated during the 0–20 NTU calibration.*

7. The display will show the S2 (with the 2 flashing) and 100 NTU of the value of the S2 standard for the previous calibration. If the value is incorrect, edit the value by pressing the → key until the number that needs editing flashes. Use the up arrow key to scroll to the correct number. After

editing, fill a clean sample cell to the line with well-mixed 100 NTU StableCal Standard or 100 NTU formazin standard. Insert the sample cell into the cell compartment by aligning the orientation mark on the cell with the mark on the front of the cell compartment. Close the lid.

8. Press **READ.** The instrument will count from 60 to 0 (67 to 0 if signal average is on), measure the turbidity and store the value. Then the display will automatically increment to the next standard. Remove the sample cell from the cell compartment.

9. The display will show the S3 (with 3 flashing) and 800 NTU, or the value of the S3 standard for the previous calibration. If the value is incorrect, edit the value by pressing the → key until the number that needs editing flashes. Use the up arrow key to scroll to the correct number. After editing, fill a clean sample cell to the line with well-mixed 800 NTU formazin standard. Insert the sample cell into the cell compartment by aligning the orientation mark on the cell with the mark on the front of the cell compartment. Close the lid.

10. Press **READ**. The instrument will count from 60 to 0 (67 to 0 if signal average is on), measure the turbidity, and store the value. Then the display will increment back to the S0 display. Remove the sample cell from the cell compartment.

11. Press **CAL** to accept the calibration. The instrument will return to measurement mode automatically. *Note: pressing CAL completes the calculation of the calibration coefficients. If calibration errors occurred during calibration, error messages will appear after CAL is pressed. If E1 or E2 appear, check the standard preparation and review the calibration; repeat the calibration if necessary. If CAL? appears, an error may have occurred during calibration. If CAL? is flashing, the instrument is using the default calibration.*

Notes

- If the **I/O** key is pressed during calibration, the new calibration data are lost, and the old calibration will be used for measurements. Once in calibration mode, only the **READ, I/O,** ↑, and → keys function. Signal averaging and range mode must be selected before the

calibration mode can be entered.

• If **E 1** or **E 2** is displayed, an error occurred during calibration. Check the standard preparation and review the calibration; repeat the calibration if necessary. Press **DIAG** to cancel the error message (**E 1** or **E 2)**. To continue without repeating the calibration, press **I/O** twice to restore the previous calibration. If **CAL?** is displayed, an error may have occurred during calibration. The previous calibration may not be restored. Either recalibrate or use the calibration as is.

• To review a calibration, press **CAL** and then ↑ to view the calibration standard values. As long as **READ** is never pressed and **CAL** is not flashing, the calibration will not be updated. Press **CAL** again to return to the measurement mode.

pH Meter Calibration

The pH meter must be calibrated before daily use. The calibration may be accomplished in the laboratory or in the field. In addition to a "preuse" calibration, it is strongly recommended that the meter be checked with a standard buffer solution at least once during the day in order to observe any instrument drift that may have occurred.

Manual Calibration (with two reference solutions)

1. Attach or verify that the pH-indicating electrode and the automatic temperature compensator (ATC) are on the display unit.
2. Remove the rubber filling solution plug (if so equipped) to allow equilibration of the internal solution to the ambient air. Allow approximately five minutes for the equilibration process, and replace the plug.
3. Turn on the unit and select the calibration mode.
4. Rinse both electrodes with deionized water and dry (carefully) any excess water.
5. Rinse the pH electrode in the first pH buffer (reference) solution. After rinsing, immerse the electrode in a container of the first reference solution, and stir to remove bubbles on the electrode.
6. Allow the display to read **READY** and begin flashing. If the pH reading is within the manufacturer's specifications (see equipment manual), press **YES**. If not, press **NO** and repeat the procedure. The first standard will subsequently be locked into the unit's memory.
7. To calibrate the meter to the second pH reference solution, repeat steps 4, 5, and 6 USING the second solution.
8. Remove and rinse probes IN deionized water, and begin sample analysis. Otherwise the meter may be turned off; it will keep calibrating as long as the power source remains intact.

Electrode Care and Maintenance for pH Meters

The pH electrodes discussed above are of the temperature-compensating triode design. These probes are delicate and require careful handling. The probes should not be allowed to freeze and MUST be stored in a vial of the storage solution.

1. Inspect the probe for damage before each use. Verify that probes contain the appropriate levels of filling solution.
2. If filling-solution levels are low, more solution should be added. Use the Hach solution for Hach probes and the Orion solution for Orion probes.
3. If the probe appears sluggish when readings are taken, the filling solution should be drained and refilled with fresh solution.
4. During normal operations, the probe will become fouled with scale deposits and oils. Clean with laboratory-grade soap by soaking the probe in the soap solution and rinsing in deionized water. If fouling is not removed by this procedure, then a 0.1-N solution of HCL or HNO_3 can be used as a soaking media.
5. Probes must be stored in the electrode storage solution or in a 4.0-pH buffer solution. If probes are allowed to dry out, irreversible damage to the probe may occur.

Conductivity Probes

Orion Conductivity/Temperature Meters, Models 122, 126, 128, and 1230

Conductance, refers to the ability of a substance to carry an electrical current. These probes are used to define the physical parameters of conductivity. Conductivity is the algebraic reciprocal of electrical resistance and is expressed in SI units of microSeimens per centimeter. Specific conductance is electrical conductance measured across a one-cm cube of liquid (sample) between opposing faces of two platinum electrodes at 25°C. Conductivity is the same parameter measured at ambient temperature that has not been temperature compensated to 25°C.

Calibration

The conductivity meter must be calibrated in the laboratory or in the field daily. Conductance standards should be chosen to closely reflect the values expected in the sample groups. For example, if historical conductivity values for an area to be sampled range below 1000 µS/cm, the 500-µS/cm solution should be chosen. The meters are designed to provide a nonlinear-function temperature coefficient to correct calculations; however, best results may be obtained when samples are 25°C.

Calibration Steps

1 Select conductivity measurement by turning the meter's conductivity/temperature selector knob from **OFF** to **CONDUCTIVITY** (labeled Δ).
2 Submerge the probe into THE selected conductivity standard (past the open area within the probe), and stir briefly to eliminate any air bubbles.
3 Maintain the probe in solution, wait for the reading to stabilize, and record the final value.
4 No manual adjustment for the meter exists; therefore, the process described herein provides a reference check. If the conductivity reading obtained from steps 1 through 3 is within ±3% of the given standard value, the meter is deemed to be within tolerance limits. If repeated attempts fail to obtain readings within the acceptable range, the meter will require factory service.

Maintenance

1 The meter electrode must be clean for readings to be accurate. Laboratory-grade soap may be used to clean dirt and oil deposits from the meter. For mineral deposits, a 1-M-HCl solution may be used in ten parts deionized water, and ten parts isopropyl alcohol as a soaking agent for their removal.
2 The conductivity probe may be stored dry. After each use, however, the probe should be rinsed in deionized water and blotted dry.
3 The unit will indicate a low battery by flashing **LOBAT** in the upper-left-hand corner of the LCD display. The nine-volt disposable battery should be changed out with the unit **OFF**, to prevent damage.

APPENDIX D—Forms

EDWARDS AQUIFER AUTHORITY

Water Quality Field Data Sheet

HCP SEDIMENT

Site Information

Station Name:
Location:
Owner/Contact: Edwards Aquifer Authority
Address: 900 East Quincy
County:
Point of Collection:
Date: / / 201 Time:
Ambient Temp. Collector(s):
Weather:

Equal-Width-Increment Method

Transect Width:
Number of Verticals:
Flow/Apperance:

Type of Analysis: (circle all that apply)

GWQP	Selct. Met.	8081	8082	8141	8151
TOC	T. Phosphorous	SVOCs	TB	DOC	VOC

Notes

Latitude:	Longitude:

Datum: _____

updated 06/06/13

Water Quality Field Data Sheet

HCP STORM WATER

Site Information

Station Name:
Location:
Owner/Contact: Edwards Aquifer Authority
Address: 900 East Quincy
County:
Point of Collection:
Date: / / 201 Time:
Ambient Temp. Collector(s):
Weather:

Field Readings

Time Sampled:
pH:
Temperature:
Conductivity:
Dissolved Oxygen:
Turbidity:

Equal-Width-Increment Method

Transect Width:
Flow/Apperance:

Instrument Calibration

Conductivity Meter #	
Standard	Meter Reading
500	
1000	
10000	
pH Meter #	
Standard	Meter Reading
Buffer 4.0	
Buffer 7.0	
Buffer 10.0	
pH Meter #	
Standard	Meter Reading
DI water in bottle	

Alkalinity

Alkalinity Meter: DR 2800 TNT870

Total Alkalinity

Type of Analysis: (circle all that apply)

GWQP	Selct. Met.	8081	8082	8141	8151
TOC	T. Phosphorous	TKN	E-Coli MPN	DOC	VOC
TB	SVOCs				

Latitude:	Longitude:

Datum: _____

Sampling Conditions

Gage Readings	Time	Level
Before Sampling		
After Sampling		

Hydrologic Event	Hydrologic Condition
Storm	Stable, Low
Drought	Falling
Spill	Stable, High
Regulated Flow	Rising
Routine Sample	Stable, Normal

updated 12/21/12

Water Quality Field Data Sheet

HCP SURFACE WATER

Site Information

Station Name:
Location:
Owner/Contact: Edwards Aquifer Authority
Address: 900 East Quincy
County:
Point of Collection:
Date: / / 201 Time:
Ambient Temp. Collector(s):
Weather:

Field Readings

Time Sampled:
pH:
Temperature:
Conductivity:
Dissolved Oxygen:
Turbidity:

Equal-Width-Increment Method

Transect Width:
Flow/Apperance:

Instrument Calibration

Conductivity Meter #	
Standard	Meter Reading
500	
1000	
10000	
pH Meter #	
Standard	Meter Reading
Buffer 4.0	
Buffer 7.0	
Buffer 10.0	
pH Meter #	
Standard	Meter Reading
DI water in bottle	

Alkalinity

	mL of Sample	mL of Acid	Total Alk	Ave. Total Alk.
Rep.1				
Rep. 2				
Rep3.				

Type of Analysis: (circle all that apply)

GWQP	Selct. Met.	8081	8082	8141	8151
TOC	T. Phosphorous	TKN	E-Coli MPN	DOC	VOC
TB	SVOCs				

Latitude:	Longitude:

Datum: _____

Sampling Conditions

Gage Readings	Time	Level
Before Sampling		
After Sampling		

Hydrologic Event	Hydrologic Condition
Storm	Stable, Low
Drought	Falling
Spill	Stable, High
Regulated Flow	Rising
Routine Sample	Stable, Normal

updated 12/21/12

Water Quality Field Data Sheet

SPRINGS

Spring Information

State well ID #: NA
Owner/Contact: New Braunfels Parks & Rec.
Address:
Phone Number:
County: Comal
Spring Name / #: Comal Springs 7
Point of Collection: Springs Oriface
Spring Use: Springs
Date: Time:
Weather: Collector(s):

Instrument Calibration

Conductivity Meter	
Standard	Meter Reading
500	
1000	
pH Meter	
Standard	Meter Reading
Buffer 4.0	
Buffer 7.0	
Buffer 10.0	
DO Meter	
Standard	Meter Reading
DI water in bottle	

Field Readings

Time Sampled:
Turbidity:

Time	Temp	Cond.	pH	DO

Alkalinity

	mL of Sample	mL of Acid	Total Alk	Ave. Total Alk.
Rep.1				
Rep. 2				
Rep3.				

Type of Analysis: (circle all that apply)

GWQP	Selct. Met.	8081	8082	8141	8151
8260	Trip Blank	SVOC'S	TOC	T. Phosphorous	Ortho-pohsphate as P
E-Coli MPN	TPH	PAH	PPCP		

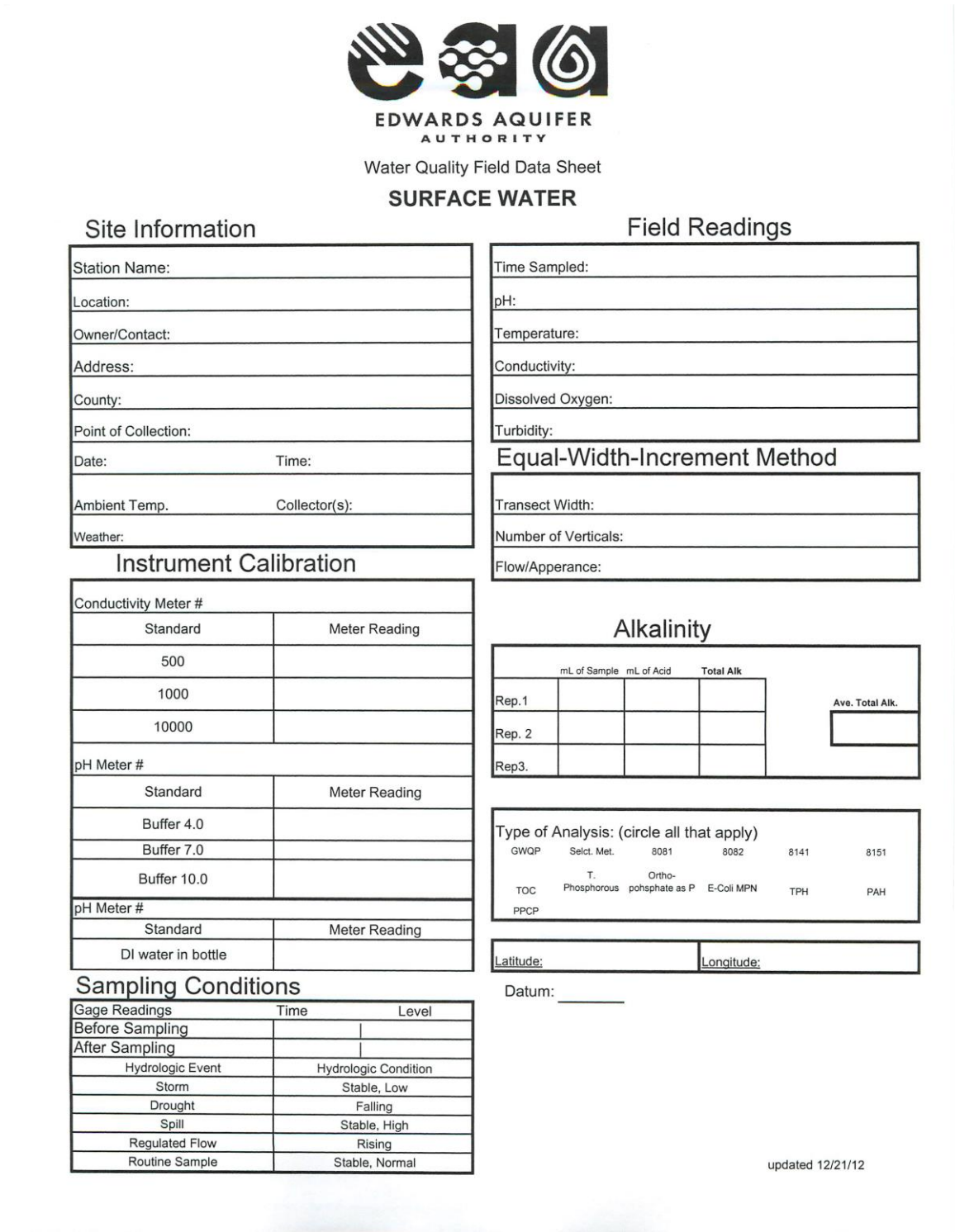
Latitude:	Longitude:

Datum: _____

Sampling Conditions

Sprling Flow	Low	Medium	High
Flow Apperance	Clear	Cloudy	Murky

updated 12/21/12



EDWARDS AQUIFER AUTHORITY

Water Quality Field Data Sheet

SURFACE WATER

Site Information

Station Name:	
Location:	
Owner/Contact:	
Address:	
County:	
Point of Collection:	
Date:	Time:
Ambient Temp.	Collector(s):
Weather:	

Instrument Calibration

Conductivity Meter #	
Standard	Meter Reading
500	
1000	
10000	
pH Meter #	
Standard	Meter Reading
Buffer 4.0	
Buffer 7.0	
Buffer 10.0	
pH Meter #	
Standard	Meter Reading
DI water in bottle	

Sampling Conditions

Gage Readings	Time	Level
Before Sampling		
After Sampling		

Hydrologic Event	Hydrologic Condition
Storm	Stable, Low
Drought	Falling
Spill	Stable, High
Regulated Flow	Rising
Routine Sample	Stable, Normal

Field Readings

Time Sampled:
pH:
Temperature:
Conductivity:
Dissolved Oxygen:
Turbidity:

Equal-Width-Increment Method

Transect Width:
Number of Verticals:
Flow/Apperance:

Alkalinity

	mL of Sample	mL of Acid	Total Alk	Ave. Total Alk.
Rep.1				
Rep. 2				
Rep3.				

Type of Analysis: (circle all that apply)

GWQP	Selct. Met.	8081	8082	8141	8151
TOC	T. Phosphorous	Ortho-pohsphate as P	E-Coli MPN	TPH	PAH
PPCP					

Latitude:	Longitude:

Datum: _____

updated 12/21/12

EDWARDS AQUIFER AUTHORITY

Water Quality Field Data Sheet
GROUNDWATER

Well Information

State well ID #:	
Owner/Contact:	
Address:	
Phone Number:	
County:	
Well Name / #:	
Point of Collection:	
Well Use:	
Weather:	
Date:	Time:
Flow Rate: gpm	Collector(s):
Water Level:	Well Depth:
Casing Dia.:	3 x well volume=

Field Readings

Started Pumping:	
Time Sampled:	
Turbidity:	

Time	Temp	Cond.	pH	Do

Alkalinity

	mL of Sample	mL of Acid	Total Alk	Ave. Total Alk.
Rep.1				
Rep. 2				
Rep3.				

Instrument Calibration

Conductivity Meter #

Standard	Meter Reading
500	
1000	
10000	

pH Meter #

Standard	Meter Reading
Buffer 4.0	
Buffer 7.0	
Buffer 10.0	

DO Meter

Standard	Meter Reading
DI water in bottle	

Latitude:	Longitude:

Datum:

Type of Analysis: (circle all that apply)

GWQP	Selct. Met.	8081	8082	8141	8151
8260	Trip Blank	SVOC'S	TOC	T. Phosphorous	Ortho-pohsphate as P
E-Coli MPN	TPH	PAH	PPCP		

Updated on 12/21/12

FY06

TWDB Water Quality Field Data Sheet

Newly Inventoried Well _____

SWN: _____ Name: _____ ID Number: _____

County: _____ Address: _____ Date: _____

County Code: _____ Sampler(s): _____

Aquifer Code: _____ Phone Number: _____

Aquifer Id: _____ Attention: _____

Well Name or #: _____

CIRCLE EACH SAMPLE FRACTION COLLECTED:									
1	2	3	4	5	6	7	8	9	10
500ml filtered **Anions/T. Alk.** Ice	250 ml filtered **Cation** (HNO3)	500ml filtered **Nitrate** Ice + H2SO4							

All acidified samples pH <2.0. (*) If natural pH<7, then add NaOH until pH is >7. If natural pH is≥7, no NaOH required.

Calibration Verification Readings		
pH	7 =	
	4 or 10 =	
SLP =	7.38 =	
Conductivity	500 =	
	1000 =	
	2000 =	
	5000 =	

Time In: _____ Time Out: _____

Water Level: _____ W.L. remark: _____ M.P. = _____

Pumping time: _____ Sampling Point: _____

Well Use: _____ **FIELD G.P.S. readings**

Lift: _____ Latitude: ° ' "

Power: _____ Longitude: ° ' "

Datum: _____

Casing Type: _____ Casing Size: _____ "

Sample Time: _____ Filter pressure: hand pump / line / spring

Field Alkalinity Titration:

_____ Start pH _____ End pH

50.0 mL Sample Size

_____ mL Acid added for Phenol (> 8.3)

_____ mL Acid added for Total (to pH 4.5)

Items below calculated from: mL acid added x 20 = Alkalinity

Phenol Alkalinity (82244): _____ mg/L

Total Alkalinity (39086): _____ mg/L

Items Below Calculated Later From Results:

Dissolved Solids (mg/L): _____

Hardness (as CaCO3): _____

Balanced: _____

Water Quality Stabilization Parameters Table (At least 3 readings @ 5 min. intervals)

Time									
pH									
Celsius Temp.									
Conductivity									

Notes: _____

Data Entered By Sampler into Database: yes / no

>>> Select a Laboratory <<<
#N/A
#N/A
#N/A
#N/A

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Your Company Name here	Tel/Fax:	Lab Contact:	Carrier:	____ of ____ COCs
Address	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip	Calendar (C) or Work Days (W)			Walk-in Client:
(xxx) xxx-xxxx Phone	TAT if different from Below ____			Lab Sampling:
(xxx) xxx-xxxx FAX	☑ 2 weeks			
Project Name:	☐ 1 week			Job / SDG No.:
Site:	☐ 2 days			
P O #	☐ 1 day			Sampler:

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	Sample Specific Notes:

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:		
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:		
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:		

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions

Regional Environmental Laboratory
CHAIN OF CUSTODY

600 E. Euclid
San Antonio, TX 78212
Phone: (210) 302-3649
FAX (210) 302-3694

Report To: _____ Phone #: _____ Collector's Name: _____

Address: _____ FAX #: _____ Field Comments: _____

City, State, ZIP: _____ E-mail: _____

Rush Analysis(Additional Fees Apply) ☐0-3 days ☐4-6 days Report Delivery: ☐Mail ☐Fax ☐E-mail Method of Shipment: ☐Hand Delivered ☐Mailed ☐Ice

Sample # Lab Use Only	Sample Location	1. Collection Method	2. Sample Type	3. Matrix	4. Composite Start Date/Time	Collection Date/Time	5. Container Type	Requested Analyses						6. Type of Preservation	Lab Use ONLY Therm. ID: G01-066 Receipt Temp (°C) Observed/Corrected ____/____ pH <2 Y or N pH Paper: R006-63-6

Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Lab Comments: NA - Not Applicable

1. **Collection Method**: G - Grab, C - Composite
2. **Sample Type**: EF – Effluent, IF – Influent, BW – Bottled Water SW – Surfacewater, ST – Stormwater, PW – Private Well, O – Other (Specify in Comments
3. **Matrix**: DW – Drinking Water, NPW – Non-Potable Water, SE – Sediment, SO – Soil, O – Other (Specify in Comments)
4. Composite Samples require Composite Start Date/Time and Collection Date/Time
5. **Container Type**: GC – Gallon Cubitainer, QC Quart Cubitainer, AB – Amber Glass Bottle, CB – Clear Glass Bottle, DS Drinking Water Screwtop, PB-Plastic Bottle, AP-Amber Plastic, WP-WhirlPak
6. **Type of Preservation**: U – Ungreserved (No Chemical Preservation), S = Sulfuric Acid, H – Hydrochloric Acid, N – Nitric Acid, P – Phosphoric Acid, O – Other (Specify in Comments)

F053_Rev07 Effective Date: 10/1/2012 Page 1 of 1

Environmental Laboratory Services
The Solution Lab

LCRA ENVIRONMENTAL LABORATORY SERVICES (ELS)
CHAIN OF CUSTODY RECORD

NOTE: Relinquishing sample(s) to ELS obligates the submitter to all Standard Terms and Conditions stated on the back of this form.

Target Due Date: _____
Work Order No.: _____
COC No.: _____
Page _____ of _____

Results To: _____ (NAME) _____ (ADDRESS) _____ (CITY) _____ (STATE) _____ (ZIP) Sampled By: _____

Bill To: _____ (NAME) _____ (ADDRESS) _____ (CITY) _____ (STATE) _____ (ZIP) PO No.: _____

Phone No.: _____ Fax No.: _____ Method of Transport: _____ TAT Requested: _____ Working days E-mail: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____ Relinquished By: _____ Date: _____ Time: _____

Report Requirements
☐Hardcopy ☐E-mail ☐Fax
☐EDD (Generic)

Regulatory Requirements
☐None ☐NELAP
☐ _____

Received at ELS By: _____ Date: ___ Time: ___
☐Received on Ice Temp: _____ °C
Login Review: _____ Date: _____

ELS Mgmt. Approval for RUSH: _____
Surcharge for RUSH: _____ %

ELS ID:	SAMPLE DESCRIPTION Custody Seals (circle): Cooler Bottles None	MATRIX	SAMPLE COLLECTION DATE	 TIME	CONTAINERS NUMBER	 SIZE	 TYPE	ANALYSIS REQUESTED - Place an "x" in the box below to indicate request. PRESERVATIVES / pH

Special Instructions: _____
ELS Comments: _____

White - ELS Pink - Customer http://els.lcra.org • 3505 Montopolis • Austin, Texas • 78744-1417 • (512) 356-6022 • Fax (512) 356-6021 • 1-800-776-5272, Ext. 6022 Form 1156 Rev. 7/08

APPENDIX E—Drinking-Water Standards and Chemical Health Effects, from 30 TAC 290, RG-346, and U.S. EPA, July 2002

(Note, regulatory limits change frequently for certain compounds, the data herein are for general comparisons. The reader should utilized the most recent data available online from TCEQ and EPA if sample results exceed regulatory limits)

Parameter, Method, and Units	Maximum Contaminant Levels or Secondary Standards	Potential Health Effects from Ingestion of Water^	Sources of Contaminant in Drinking Water^
Temperature (˚C) EPA 170.1	**NE**	**NA**	**NA**
pH measured at 25°C EPA 150.1	**>7.0***	**NA**	**NA**
Turbidity (NTU)	**NE**	**NA**	**NA**
Dissolved oxygen (DO) (mg/L)	**NE**	**NA**	**NA**
Alkalinity total as $CACO_3$ SM 2320 B (mg/L)	**NE**	**NA**	**NA**
Specific conductance µS/cm	**NE**	**NA**	**NA**
Laboratory		**NA**	**NA**
Alkalinity total as $CACO_3$ SM 2320 B	**NE**	**NA**	**NA**
Bicarbonate (HCO_3) SM 2320 B	**NE**	**NA**	**NA**
Fecal coliform (CFU/100 mL)	**0 MCLG[1]**	**NA**	**NA**
Fecal strep (CFU/100 mL)	**0 MCLG[1]**	**NA**	**NA**
E. coli (CFU/100 mL)	**0 MCLG[1]**	**NA**	**NA**
pH measured at 25°C EPA 150.1	**>7.0***	**NA**	**NA**
Specific conductance µS/cm	**NE**	**NA**	**NA**
Nutrients (mg/L)			
Nitrate-nitrite as N EPA354.1/300.0	**10**	**Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.**	**Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits**

Parameter, Method, and Units	Maximum Contaminant Levels or Secondary Standards	Potential Health Effects from Ingestion of Water^	Sources of Contaminant in Drinking Water^
Nitrate as N E300	**10**	**Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.**	**Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits**
Orthophosphate EPA 365.3	**NE**	**NA**	**NA**
Ammonia as N SM 4500	**NE**	**NA**	**NA**
Phosphorus	**NE**	**NA**	**NA**
Major Ions (mg/L)		**NA**	**NA**
Sulfate (SO_4) EPA 300.0	**300***	**NA**	**NA**
Solids total dissolved (TDS) EPA 160.1	**1,000***	**NA**	**NA**
Solids total suspended (TSS) EPA 160.2	**NE**	**NA**	**NA**
Bromide (Br) EPA 300.0	**NE**	**NA**	**NA**
Chloride (CI) EPA 300.0	**300***	**NA**	**NA**
Fluoride (F) EPA 340.2	**2.0***	**Bone disease (pain and tenderness of the bones); children may get mottled teeth**	**Water additive that promotes strong teeth, erosion of natural deposits, discharge from fertilizer and aluminum factories**
Metals by EPA 200.7 and 200.8 (μg/L)		**NA**	**NA**
Aluminum	**24,000****	**NA**	**NA**
		NA	**NA**
Antimony	**6**	**Increase in blood cholesterol; decrease in blood sugar**	**Discharge from petroleum refineries, fire retardants, ceramics, electronics, solder**
Arsenic	**5**	**Skin damage or problems with circulatory systems and increased risk of cancer**	**Erosion of natural deposits; runoff from orchards and glass and electronics production wastes**

Parameter, Method, and Units	Maximum Contaminant Levels or Secondary Standards	Potential Health Effects from Ingestion of Water^	Sources of Contaminant in Drinking Water^
Barium	**2,000**	**Increase in blood pressure**	**Discharge of drilling wastes, discharge from metal refineries, erosion of natural deposits**
Beryllium	**4**	**Intestinal lesions**	**Discharge from metal refineries and coal-burning factories. erosion of natural deposits**
Boron	**4,900****		
Cadmium	**5**	**Kidney damage**	**Corrosion of galvanized pipe, erosion of natural deposits, discharge from metal refineries, runoff from waste batteries and paints**
Chromium	**100**	**Allergic dermatitis**	**Discharge from steel and pulp mills, erosion of natural deposits**
Cobalt	**1,500****	**NA**	**NA**
Copper	**1,300***	**Short-term exposure, gastrointestinal distress; long-term exposure, liver or kidney damage. People with Wilson's disease should consult their personal doctor if the amount of copper in their water exceeds the action level.**	**Corrosion of household plumbing systems, erosion of natural deposits**
Iron	**300***	**NA**	**NA**
Lead	**15**	**Infants and children: delays in physical or mental development; children could show slight deficits in attention span and learning abilities. Adults: Kidney problems, high blood pressure**	**Corrosion of household plumbing systems, erosion of natural deposits**
Lithium	**490****	**NA**	**NA**
Manganese	**1,100***	**NA**	**NA**
Molybdenum	**120****	**NA**	**NA**
Nickel	**490****	**NA**	**NA**

Parameter, Method, and Units	Maximum Contaminant Levels or Secondary Standards	Potential Health Effects from Ingestion of Water^	Sources of Contaminant in Drinking Water^
Selenium	**50**	**Hair or fingernail loss, numbness in fingers or toes, circulatory problems**	**Discharge from petroleum refineries, erosion of natural deposits, discharge from mines**
Silver	**120***	**NA**	**NA**
Strontium	**15,000****	**NA**	**NA**
Thallium	**2**	**Hair loss; changes in blood; kidney, intestine, or liver problems**	**Leaching from ore processing sites; discharge from electronics, glass, and drug factories**
Uranium	**30**	**NA**	**NA**
Vanadium	**1.7****	**NA**	**NA**
Zinc	**7,300***	**NA**	**NA**
		NA	**NA**
Metals by E200.8 (mg/L)			
Calcium	**NE**	**NA**	**NA**
Magnesium	**NE**	**NA**	**NA**
Potassium	**NE**	**NA**	**NA**
Sodium	**NE**	**NA**	**NA**
Metals by SW-7470A (mg/L)			
Mercury	**0.002**	**Kidney damage**	**Erosion of natural deposits, discharge from refineries and factories, runoff from landfills and croplands**
Total Organic Carbon by E415.1 (mg/L)			
TOC	**NE**	**NA**	**NA**
Herbicides by SW-8141 (*µ*g/L)			
Azinphosmethyl	**37****	**NA**	**NA**
Bolstar (Sulprofos)	**73****	**NA**	**NA**
Chlorpyrifos	**73****	**NA**	**NA**
Coumaphos	**170****	**NA**	**NA**

Parameter, Method, and Units	Maximum Contaminant Levels or Secondary Standards	Potential Health Effects from Ingestion of Water^	Sources of Contaminant in Drinking Water^
Demeton-O	**1.0****	**NA**	**NA**
Demeton-S	**0.98****	**NA**	**NA**
Diazinon	**22****	**NA**	**NA**
Dichlorvos	**3.1****	**NA**	**NA**
Dimethoate	**4.9****	**NA**	**NA**
Disulfoton	**0.98****	**NA**	**NA**
EPN	**0.24****	**NA**	**NA**
Ethoprop	**2.4****	**NA**	**NA**
Famphur	**0.73****	**NA**	**NA**
Fensulfothion	**24****	**NA**	**NA**
Fenthion	**1.7****	**NA**	**NA**
Malathion	**490****	**NA**	**NA**
Merphos	**7.3****	**NA**	**NA**
Methyl parathion	**6.1****	**NA**	**NA**
Mevinphos (Phosdrin)	**0.61****	**NA**	**NA**
Mononcrotophos	**15****	**NA**	**NA**
Naled	**49****	**NA**	**NA**
Parathion	**150****	**NA**	**NA**
Phorate	**4.9****	**NA**	**NA**
Ronnel	**1,200****	**NA**	**NA**
Stirophos (Tetrachlorvinphos)	**1,000****	**NA**	**NA**
Sulfotepp (Tetraethyl dithiopyrophosphate)	**12****	**NA**	**NA**
Tokuthion (Prothiofos)	**2.4****	**NA**	**NA**
Trichloronate	**73****	**NA**	**NA**
Thionazin	**1.7****	**NA**	**NA**
Herbicides by SW-8151 (*µ*g/L)			
2,4,5-T	**240**	**NA**	**NA**
2,4,5-TP (Silvex)	**50**	**Liver problems**	**Residue of banned herbicide**

Parameter, Method, and Units	Maximum Contaminant Levels or Secondary Standards	Potential Health Effects from Ingestion of Water^	Sources of Contaminant in Drinking Water^
2,4- D	**70**	**Kidney, liver, or adrenal gland problems**	**Runoff from herbicide used on row crops**
2,4-DB	**200**	**NA**	**NA**
Dalapon	**200**	**Minor kidney changes**	**Runoff from herbicide used on rights of way**
Dicamba	**730**	**NA**	**NA**
Dichoroprop	**240**	**NA**	**NA**
Dinoseb	**7**	**Reproductive difficulties**	**Runoff from herbicide used on soybeans and vegetables**
MCPA	**12**	**NA**	**NA**
MCPP (mecoprop)	**24**	**NA**	**NA**
Pentachlorophenol	**1**	**Liver or kidney problems, increased cancer risk**	**Discharge from wood-preserving factories**
Pesticides by SW-8081 (*µ*g/L)			
4, 4'-DDD	**3.8****	**NA**	**NA**
4, 4'-DDE	**2.7****	**NA**	**NA**
4, 4'-DDT	**2.7****	**NA**	**NA**
Aldrin	**0.05****	**NA**	**NA**
Alpha-bhc (Alpha-hexachlorocyclohexane)	**0.1****	**NA**	**NA**
Alpha-chlordane	**2.6****	**NA**	**NA**
Beta-bhc (Beta-hexachlorocyclohexane)	**0.5****	**NA**	**NA**
Chlordane	**2.0****	**Liver or nervous system problems, increased risk of cancer**	**Residue of banned termiticide**
Delta-bhc (Delta-hexachlorocyclohexane)	**0.5****	**NA**	**NA**
Dieldrin	**0.57****	**NA**	**NA**
Endosulfan I	**49****	**NA**	**NA**
Endosulfan II	**150****	**NA**	**NA**
Endosulfan sulfate	**150****	**NA**	**NA**
Endrin	**2.0****	**Liver problems**	**Residue of banned insecticide**

Parameter, Method, and Units	Maximum Contaminant Levels or Secondary Standards	Potential Health Effects from Ingestion of Water^	Sources of Contaminant in Drinking Water^
Endrin aldehyde	**7.3****	**NA**	**NA**
Endrin ketone	**==**		
Gamma-bhc (Lindane)	**7.3****	**NA**	**NA**
Gamma-chlordane	**0.2**	**Liver or kidney problems**	**Runoff/leaching from insecticide used on cattle, lumber, gardens**
	2.6**	**NA**	**NA**
Heptachlor epoxide	**0.4**	**Liver damage, increased risk of cancer**	**Residue of banned termiticide**
Methoxychlor	**0.2**	**Liver damage, increased risk of cancer**	**Breakdown of heptachlor**
Toxaphene	**40**	**Reproductive difficulties**	**Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock**
PCBs by SW-8082 (*µ*g/L)	**3**	**Kidney, liver, or thyroid problems; increased risk of cancer**	**Runoff/leaching from insecticide used on cotton and cattle**
Aroclor 1016			
Aroclor 1221	**0.5**	**Skin changes, thymus gland problems, immune deficiencies, reproductive or nervous system difficulties, increased risk of cancer**	**Runoff from landfills, discharge of waste chemicals**
Aroclor 1232	**0.5**	**Skin changes, thymus gland problems, immune deficiencies, reproductive or nervous system difficulties, increased risk of cancer**	**Runoff from landfills, discharge of waste chemicals**
Aroclor 1242	**0.5**	**Skin changes, thymus gland problems, immune deficiencies, reproductive or nervous system difficulties, increased risk of cancer**	**Runoff from landfills, discharge of waste chemicals**
Aroclor 1248	**0.5**	**Skin changes, thymus gland problems, immune deficiencies, reproductive or nervous system difficulties, increased risk of cancer**	**Runoff from landfills, discharge of waste chemicals**

Parameter, Method, and Units	Maximum Contaminant Levels or Secondary Standards	Potential Health Effects from Ingestion of Water^	Sources of Contaminant in Drinking Water^
Aroclor 1254	**0.5**	**Skin changes, thymus gland problems, immune deficiencies, reproductive or nervous system difficulties, increased risk of cancer**	**Runoff from landfills, discharge of waste chemicals**
Aroclor 1260	**0.5**	**Skin changes, thymus gland problems, immune deficiencies, reproductive or nervous system difficulties, increased risk of cancer**	**Runoff from landfills, discharge of waste chemicals**
Aroclor 1262	**0.5**	**Skin changes, thymus gland problems, immune deficiencies, reproductive or nervous system difficulties, increased risk of cancer**	**Runoff from landfills, discharge of waste chemicals**
Aroclor 1268	**0.5**	**Skin changes, thymus gland problems, immune deficiencies, reproductive or nervous system difficulties, increased risk of cancer**	**Runoff from landfills, discharge of waste chemicals**
	0.5	**Skin changes, thymus gland problems, immune deficiencies, reproductive or nervous system difficulties, increased risk of cancer**	**Runoff from landfills, discharge of waste chemicals**
SVOCs by SW-8270C (*µ*g/L)			
1,2- dichlorobenzene			
	600**	**NA**	**NA**
1,2,4- trichlorobenzene			
2, 4, 5-trichlorophenol	**70****	**Changes in adrenal glands**	**Discharge from textile finishing factories**
2, 4, 6-trichlorophenol	**2,400****	**NA**	**NA**
2, 4-dichlorophenol	**24****	**NA**	**NA**
2, 4-dimethylphenol	**73****	**NA**	**NA**

Parameter, Method, and Units	Maximum Contaminant Levels or Secondary Standards	Potential Health Effects from Ingestion of Water^	Sources of Contaminant in Drinking Water^
2, 4-dinitrophenol	**490****	**NA**	**NA**
2-chlorophenol	**49****	**NA**	**NA**
2-methylnaphthalene	**120****	**NA**	**NA**
2-methylphenol (o-cresol)	**98****	**NA**	**NA**
2-nitroaniline	**1,200****	**NA**	**NA**
2-nitrophenol	**7.3****	**NA**	**NA**
3 & 4 methylphenol (m&p cresol)	**49****	**NA**	**NA**
3-nitroaniline	**1,200****	**NA**	**NA**
4, 6-dinitro-2-methylphenol	**7.3****	**NA**	**NA**
4-chloro-3-methylphenol	**2.4****	**NA**	**NA**
4- chloroaniline	**120****	**NA**	**NA**
4-nitroaniline	**4.6****	**NA**	**NA**
4-nitrophenol	**46****	**NA**	**NA**
Naphthalene	**49****	**NA**	**NA**
Nitrobenzene	**490****	**NA**	**NA**
Pentachlorophenol	**49****	**NA**	**NA**
Phenanthrene	**1**	**NA**	**NA**
Phenol	**730****	**NA**	**NA**
Pyrene	**7,300****	**NA**	**NA**
N-nitrosodi-n-propylamine	**730****	**NA**	**NA**
N-nitrosodiphenylamine	**0.13****	**NA**	**NA**
Acenaphthene	**190****	**NA**	**NA**
Acenaphthylene	**1,500****	**NA**	**NA**
Anthracene	**1,500****	**NA**	**NA**
Benzo(a)anthracene (1 2-benzanthracene)	**7,300****	**NA**	**NA**
Benzo(b)fluoranthene	**1.3****	**NA**	**NA**
Benzo(k)fluoranthene	**1.3****	**NA**	**NA**
Benzo(ghi)perylene	**13****	**NA**	**NA**
Benzo(a)pyrene	**730****	**NA**	**NA**

Parameter, Method, and Units	Maximum Contaminant Levels or Secondary Standards	Potential Health Effects from Ingestion of Water^	Sources of Contaminant in Drinking Water^
Benzyl Alcohol	**0.2**	**Reproductive difficulties, increased risk of cancer**	**Leaching from linings of water storage tanks and distribution lines**
Butyl benzyl phthalate	**2,400****	**NA**	**NA**
Bis(2-chloroethoxy)methane	**480****	**NA**	**NA**
Bis(2-chloroethyl)ether	**0.83****	**NA**	**NA**
Bis(2-ethylhexyl)phthalate	**0.83****	**NA**	**NA**
4-bromophenyl phenyl ether	**6**	**NA**	**NA**
4-chloroaniline	**0.061****	**NA**	**NA**
2-chloronaphthalene	**4.6****	**NA**	**NA**
4-chlorophenyl phenyl ether	**2,000****	**NA**	**NA**
Chrysene	**0.061****	**NA**	**NA**
Dibenz(a,h)anthracene	**130****	**NA**	**NA**
Dibenzofuran	**0.2****	**NA**	**NA**
3 3-dichlorobenzidine	**98****	**NA**	**NA**
Diethyl phthalate	**2****	**NA**	**NA**
Dimethyl phthalate	**20,000****	**NA**	**NA**
Di-n-butyl phthalate	**20,000****	**NA**	**NA**
Di-n-octyl phthalate	**2,400****	**NA**	**NA**
2 4-dinitrotoluene	**980****	**NA**	**NA**
2 6-dinitrotoluene	**1.3****	**NA**	**NA**
Fluoranthene	**1.3****	**NA**	**NA**
Fluorene	**980****	**NA**	**NA**
Hexachlorobenzene	**980****	**NA**	**NA**
Hexachlorobutadiene	**1****	**Liver or kidney problems, reproductive difficulties, increased risk of cancer**	**Discharge from metal refineries and agricultural chemical factories**
Hexachlorocyclopentadiene	**12****	**NA**	**NA**
Hexachloroethane	**50**	**Kidney or stomach problems**	**Discharge from chemical factories**
Indeno(1,2,3-cd)pyrene	**24****	**NA**	**NA**

Parameter, Method, and Units	Maximum Contaminant Levels or Secondary Standards	Potential Health Effects from Ingestion of Water^	Sources of Contaminant in Drinking Water^
Isophorone	**1.3****	**NA**	**NA**
VOCs SW-8260b (µg/L)	**960****	**NA**	**NA**
1, 1, 1, 2-tetrachloroethane			
1, 1, 1-trichloroethane	**35.0****	**NA**	**NA**
1, 1, 2, 2-tetrachloroethane	**200**	**Liver, nervous system, or circulatory problems**	**Discharge from metal degreasing sites and other factories**
1, 1, 2-trichloroethane	**4.6****		
1, 1-dichloroethane	**5**	**Liver, kidney, or immune system problems**	**Discharge from industrial chemical factories**
1, 1-dichloropropene	**4,900****	**NA**	**NA**
1, 1-dichloroethene (Vinylidene chloride)	**9.1****	**NA**	**NA**
1- chlorohexane	**7**	**NA**	**NA**
1-octene	**980****	**NA**	**NA**
1, 2, 3-trichlorobenzene	**NE**	**NA**	**NA**
1, 2, 3-trichloropropane	**73****	**NA**	**NA**
1, 2, 4-trichlorobenzene	**0.03****	**NA**	**NA**
1, 2, 4-trimethylbenzene	**72****	**NA**	**NA**
1, 2-dibromo-3-chloropropane	**1,200****	**NA**	**NA**
1, 2-dibromoethane (EDB)	**0.2**	**Reproductive difficulties, increased risk of cancer**	**Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards**
1, 2-dichlorobenzene	**NE**	**NA**	**NA**
1, 2-dichloroethane (EDC)	**600****	**NA**	**NA**
1, 2-dichloropropane	**5**	**Increased risk of cancer**	**Discharge from industrial chemical factories**
1, 3, 5-trimethylbenzene	**5**	**Increased risk of cancer**	**Discharge from industrial chemical factories**
1,3- butadiene	**1,200****	**NA**	**NA**
1, 3-dichlorobenzene	**NE**	**NA**	**NA**
1, 3-dichloropropane	**730****	**NA**	**NA**
1, 4-dichlorobenzene	**9.1****	**NA**	**NA**
1, 4-dioxane	**75****	**NA**	**NA**

Parameter, Method, and Units	Maximum Contaminant Levels or Secondary Standards	Potential Health Effects from Ingestion of Water^	Sources of Contaminant in Drinking Water^
2, 2-dichloropropane	**9.1****	**NA**	**NA**
2- chloro-1,3- butadiene	**13**	**NA**	**NA**
2-chlorotoluene	**NE**	**NA**	**NA**
2-hexanone	**490****	**NA**	**NA**
2-nitropropane	**120****	**NA**	**NA**
1,3,5- trichlorobenzene	**3.4****	**NA**	**NA**
3- chloro-1- propene	**73****	**NA**	**NA**
4-chlorotoluene	**NE**	**NA**	**NA**
4-isopropyltoluene	**490****	**NA**	**NA**
4-methyl-2-pentanone (MIBK)	**2,400****	**NA**	**NA**
Acetone	**1,950****	**NA**	**NA**
Acetonitrile	**22,000****	**NA**	**NA**
Benzene	**780****	**NA**	**NA**
Benzyl chloride	**5**	**Anemia, decrease in blood platelets, increased risk of cancer**	**Discharge from factories, leaching from gas storage tanks and landfills**
Bromobenzene	**5.4****	**NA**	**NA**
Bromochloromethane (chlorobromomethane)	**200****	**NA**	**NA**
Bromodichloromethane	**980****	**NA**	**NA**
Bromoform (Tribromomethane)	**15****	**NA**	**NA**
Bromomethane (methyl bromide)	**120****	**NA**	**NA**
Carbon disulfide	**34****	**NA**	**NA**
Carbon tetrachloride	**2,400****	**NA**	**NA**
Chlorobenzene	**5**	**Liver problems, increased risk of cancer**	**Discharge from chemical plants and other industrial activities**
Chloroethane (ethyl chloride)	**100**	**Liver or kidney problems**	**Discharge from chemical and agricultural chemical factories**
Chloroform	**9,800****	**NA**	**NA**
Chloromethane (methyl chloride)	**240****	**NA**	**NA**

Parameter, Method, and Units	Maximum Contaminant Levels or Secondary Standards	Potential Health Effects from Ingestion of Water^	Sources of Contaminant in Drinking Water^
Cis-1, 2-dichloroethene	**70****	**NA**	**NA**
Cis-1, 3-dichloropropene	**70**	**NA**	**NA**
Cis-1,4- dichloro-2- butene	**2.0****	**NA**	**NA**
Cyclohexane	**NE**	**NA**	**NA**
Cyclohexanone	**120,000****	**NA**	**NA**
Dibromochloromethane	**120,000****	**NA**	**NA**
Dibromomethane	**11****	**NA**	**NA**
Dichlorodifluoromethane	**NE**	**NA**	**NA**
Ethylbenzene	**4,900****	**NA**	**NA**
Ethyl acetate	**700****	**Liver or kidney problems**	**Discharge from petroleum refineries**
Ethyl ether	**22,000****	**NA**	**NA**
Ethylene oxide	**4900****	**NA**	**NA**
Ethyl methacrylate	**0.89****	**NA**	**NA**
Hexane	**2,200****	**NA**	**NA**
Hexachlorobutadiene	**1,500****	**NA**	**NA**
Iodomethane	**12****	**NA**	**NA**
Isobutyl alcohol	**34****	**NA**	**NA**
Isooctane	**7,300****	**NA**	**NA**
Isopropylbenzene (cumene)	**NE**	**NA**	**NA**
Methacrylonitrile	**700 / 2,400****	**NA**	**NA**
Methyl ethyl ketone (2-butanone)	**2.4****	**NA**	**NA**
Methyl methacrylate	**15,000****	**NA**	**NA**
Methylene chloride (dichloromethane)	**34,000****	**NA**	**NA**
Naphthalene	**5****	**NA**	**NA**
n-Butylbenzene	**490****	**NA**	**NA**
n-Heptane	**1,200****	**NA**	**NA**
n-Propylbenzene	**1,500****	**NA**	**NA**
Pentachloroethane	**980****	**NA**	**NA**

Parameter, Method, and Units	Maximum Contaminant Levels or Secondary Standards	Potential Health Effects from Ingestion of Water^	Sources of Contaminant in Drinking Water^
Propionitrile	**10****	**NA**	**NA**
sec-Butylbenzene	**9.8****	**NA**	**NA**
Styrene	**980****	**NA**	**NA**
tert-Butylbenzene	**100**	**NA**	**NA**
Tert-butyl methyl ether (mtbe)	**980****	**NA**	**NA**
Tetrachloroethene	**240****	**NA**	**NA**
Toluene	**5**	**NA**	**NA**
Trans-1, 2-dichloroethene	**1,000**	**Nervous system, kidney, or liver problems**	**Discharge from petroleum factories**
Trans-1, 3-dichloropropene	**100**	**NA**	**NA**
Trans-1,4- dicloro-2-butene	**9.1****	**NA**	**NA**
Trichloroethene	**NE**	**NA**	**NA**
Trichlorofluoromethane	**5**	**NA**	**NA**
Vinyl Acetate	**7,300****	**NA**	**NA**
Vinyl chloride (chloroethene)	**24,000****	**NA**	**NA**
m-p-xylene	**2**	**Increased risk of cancer**	**Leaching from PVC pipes, discharge from plastic factories**
o-xylene	**10,000****	**NA**	**NA**
Xylenes, Total	**10,000****	**NA**	**NA**
	10,000**	**Nervous system damage**	**Discharge from petroleum factories, discharge from chemical factories**
Total coliforms (including E. Coli MPN)			
1694 Pharmaceuticals (LCMS/MS)	**0**	**Not a health threat in itself; it is used to indicate whether other potentially harmful bacteria may be present.**	**Coli forms are naturally present in the environment, as well as feces; fecal coli forms and E. coli only come from human and animal fecal waste.**
1694 Pharmaceuticals (LCMS/MS)	**NA**	**NA**	**NA**
1694 Pharmaceuticals (LCMS/MS)	**NA**	**NA**	**NA**
1694 Pharmaceuticals (LCMS/MS)	**NA**	**NA**	**NA**

Parameter, Method, and Units	Maximum Contaminant Levels or Secondary Standards	Potential Health Effects from Ingestion of Water^	Sources of Contaminant in Drinking Water^
Turbidity	**NA**	**NA**	**NA**
	NA	**Turbidity is a measure of the cloudiness of water. It is used to indicate water quality and filtration effectiveness (e.g., whether disease-causing organisms are present). Higher turbidity levels are often associated with higher levels of disease-causing microorganisms such as viruses, parasites, and some bacteria. These organisms can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.**	**Soil runoff**

Maximum contaminant level and secondary standards from 30 TAC 290 Subchapter F.
** Numerical value for risk reduction not an MCL, but provides a measure of desirable concentrations,from RG-346 (www.sos.state.tx.us).
^From EPA 816-F-02-013 July 2002.

APPENDIX F—Stormwater-Sampling Detail

Stormwater-Sampling Program for Comal and San Marcos Springs in Support of the Edwards Aquifer Habitat Conservation Plan

PURPOSE

The purpose of this technical procedure is to describe the methodology for collecting grab samples from stormwater runoff in surface waters at Comal and San Marcos springs. Sample frequency is twice annually, with samples collected across three points on the hydrograph. The EAA samples storm waters at Comal Springs at the following five locations (see Appendix A for map):

1. Upper Springs (near Blieders Creek),
2. New Channel—(below confluence with Dry Comal Creek),
3. Upper Old Channel—(at Elizabeth Street),
4. Lower Old Channel—(above Hinman Island), and
5. Comal River—(above confluence with Guadalupe River).

The EAA samples stormwaters at San Marcos Springs at the following seven locations (see Appendix A for map):

1. Sink Creek, upstream of Spring Lake,
2. Sessoms Creek,
3. Dog Beach Outflow,
4. Hopkins Street Outflow,
5. Purgatory Creek (above San Marcos River),
6. I-35 Reach, and
7. Willow Creek (above San Marcos River).

SCOPE

This procedure applies to all EAA personnel and subcontractors who sample storm water.

DEFINITIONS

1. Stormwater runoff as stated by the US EPA, "is generated when precipitation from rain and snowmelt events flows over land or impervious surfaces and does not percolate into the ground" (US EPA Stormwater Program, epa.gov).
2. Rivers are sources of water that flow on top of the ground in volume.
3. Sample intervals (for the EAHCP stormwater sampling program) are defined as:
    a. Initial rise, or rising limb of the hydrograph;
    b. Peak area of hydrograph; and
    c. Recession limb of the hydrograph.

GENERAL

Weather permitting, EAA will sample two stormwater events per year to evaluate stormwater quality from urban landscapes that discharge to Comal and San Marcos springs.

STORM-EVENT SELECTION CRITERIA

According to the *Water Quality Monitoring Program Strategy for Comal Springs and San Marcos Springs in Support of the Edwards Aquifer Habitat Conservation Plan***,** (EAHCP Workplan **"**a storm water sampling event will be triggered when a local rainfall event causes a significant increase in spring flow at the historic Comal Springs gauging station and the San Marcos Springs gauging station." Furthermore, data collected from real-time instrumentation for surface water quality will be used to further refine the type of stormwater event(s) to be sampled. Real-time data are collected for the following parameters at 15-minute intervals from the stations shown on Comal and San Marcos springs EAHCP maps (Appendix A):

- Conductivity,
- DO,
- pH,
- Temperature, and
- Turbidity.

EAA field staff will monitor incoming storms by radar to determine whether the storm will produce one-half inch or more of localized precipitation and determine whether the storm is safe for stormwater sampling. Because of the nature of storms, stormwater sampling may be canceled as a result of false starts, safety issues, or if a new storm interrupts the stormwater sampling. Aquifer Science Management will make the final determination regarding go/no go for stormwater sampling.

Minimum Antecedent Dry Period Requirements

The following is a guideline to determine whether watersheds have returned to "normal" flow conditions. Each watershed will be evaluated separately because one watershed may return to "normal" flow conditions faster and technically be ready for another stormwater sampling event before another watershed, as noted below:

- One day wait if the previous rain event was limited to light rain/drizzle, producing only a surface wetting and no runoff
- Three days wait if the previous rain event did not produce enough rainfall to result in a measurable increase in discharge at the sample location(s)

- Minimum of five days wait if preceded by a rainfall of at least one-half inch at a sample location. The antecedent dry period may be longer if the sample location(s) are still being impacted by runoff from a previous rain event (SARA, 2013).

Canceling a Stormwater-Sampling Event

- A stormwater-sampling event may be canceled because of excessive lightning, hail, high winds, or flooding. If a storm does become severe during a stormwater-sampling event, the event will be postponed, cancelled, or suspended under some circumstances.
- A stormwater sampling event may be suspended because of a new rain event. For example, if samples are collected during the 10% of baseline flow conditions and another storm event interrupts this sampling event, then sampling will be suspended. The second storm will represent a new stormwater event.

RESPONSIBILITIES

CTO and Hydrogeologist Supervisor—Aquifer Science

The CTO and hydrogeologist supervisor—aquifer science will determine which parameters need to be sampled and will ensure that the samples obtained represent the environment being investigated. Sampling parameters are listed in the EAHCP workplan.

Hydrologic Data Coordinator

The hydrologic data coordinator will schedule sampling events and ensure that all field crews are provided with the information and equipment necessary to successfully complete scheduled sampling (i.e., location ID and selected analyses). Furthermore, the coordinator will organize and interface with local entities as needed to ensure that all notifications are in place for each river/spring complex as needed.

Environmental Science Technicians

Environmental science technicians will generally be responsible for collection of samples. Other individuals may also be asked to participate in sample-collection activities. However, each sample team of two people will have a lead sampler who reports back to the hydrogeologist supervisor—aquifer science. Reports will include

problems and issues in the field, inability to sample because of unforeseen or changing circumstances, and any deviations from the sample-collection plan and protocols.

PROCEDURE

Supplies and Equipment

Major Equipment Items

- Sample dipper
- Peristaltic pump with inert sample tubing
- 500- or 1,000-mL Teflon™ beakers affixed to telescoping rods
- Two gallon buckets for field-parameter readings

Equipment Support Items

- Trash bags
- Gloves (nitrile)
- Kim wipes/towels
- Rope
- Garden wagon

Sampling Supplies

- Sample bottles
- COC forms
- Sample labels
- Bailer (for filtration)
- 0.45-micron filter
- Ice chest
- Ice for sample preservation
- Ziplock bags
- Field sheet
- Pen and waterproof permanent marker

Monitoring Equipment

- pH and temperature meter
- Specific conductance meter
- Dissolved-oxygen meter
- Turbidity meter

Health and Safety Items

- First-aid kit and emergency eye-wash kit
- Fire extinguisher
- Mobile phone
- Helmet with head lamp
- Hand sanitizer
- Mud boots
- Raincoat
- Life vests with reflective markings
- Throw rope
- Computer access to real-time flow, water quality, and weather data

Field Equipment Decontamination

Proper decontamination between sites is essential to the avoidance of introducing contaminants from the sampling equipment. Before sampling, all hoses, buckets, water quality probes, and other sampling equipment should be decontaminated at EAA before fieldwork. Procedures specified in the EAA's *Field Sampling Plan* should be followed for decontamination of field equipment.

Instrument Usage and Measurement of Water Quality Parameters

Before going into the field, the environmental science technician should verify that all field instruments are operating properly. Calibration will be done on pH, specific conductivity, dissolved oxygen, and turbidity meters, and calibration information should be recorded in the calibration log book.

Purging

No purging is required for stormwater runoff to be sampled in the Comal and San Marcos rivers.

Sample Collection

According to the EAHCP work plan**, "**three water quality samples will be collected from each surface water sampling location during the sampling event. Sample times will be spaced to reflect changes in the stream hydrograph." The first sample will be during the initial rise in the hydrograph. The second sample will be collected near the peak of flow. The final sample will be collected along the recession limb of the storm hydrograph. In some circumstances, additional samples may be collected during the storm event such

that sample groups may be subsequently compared to hydrograph data and the most representative samples groups sent for analyses. Following is the sampling procedure:

At EAA Offices

- EAA field staff will monitor local weather forecasts and Doppler radars to determine whether an incoming storm meets the criteria for a stormwater sampling event.
- If the incoming storm DOES NOT meet the criteria, no action will be taken.
- If the incoming storm DOES meet the criteria, EAA field staff will monitor weather conditions, estimate a time of arrival of the incoming storm, and determine whether weather conditions are safe for stormwater sampling (CTO or hydrogeologist supervisor will make the final go/no go decision).
- EAA field staff will notify the contracted laboratories for the possibility of samples.
- Labels for the sample bottles will be filled out.
- Aquifer Science CTO or Hydrogeologist supervisor will make the final determination regarding go/no-go with regard to the storm event.

In the Field

- Field personnel must wear clean (disposable) nitrile gloves during the sample-collection process.
- Sample water will be collected in a two-gallon bucket for parameter readings, and sample water will be collected in a 500- or 1000-mL Teflon™ beaker attached to telescoping rods, or, if needed, a peristaltic pump with inert tubing will be used.
- Meter(s) will be inserted into a two-gallon bucket and measurements recorded on a field sheet, or, if a peristaltic pump is being used, a flow chamber will be used.
- Samples will be collected using beakers or a peristaltic pump.
    - Herbicides and pesticides
    - General water quality parameters
    - Selected metals
    - Turbidity
    - Bacteria (E-coli most probable number)
    - Total phosphorous
    - Total organic carbon
    - Dissolved organic carbon
    - Total kjeldahl nitrogen
    - All containers will be filled almost full, except for alkalinity and VOCs
    - Alkalinity

        - A bailer attached with a filter will be used or a filter will be attached onto tubing from the peristaltic pump
        - Alkalinity must have no head space.
    - Selected metals
        - A bailer attached with a filter will be used or a filter will be attached onto tubing from the peristaltic pump
    - VOC
        - The VOC sample vial will be completely filled so that the water forms a convex meniscus at the top and then capped so that no air space exists in the vial. The vial must be turned over and tapped to check for bubbles in the vial, which indicate trapped air. If bubbles are observed, the vial should be discarded and another sample collected.
    - Any required information will be recorded on the field sheet before, during, and after sampling. Parameter readings will be measured in a two-gallon bucket and recorded on field sheets.
- Preservatives (if any) will be placed in the bottles by EAA-contracted laboratories.
- After the samples have been collected, they will be immediately placed in an ice-filled cooler.
- Prior to departure from the field, field documentation, including the COC form, will be completed, and all EAA field employees will clean their hands with hand sanitizer.
- Field notebooks will be used to record basic information for each event, such as magnitude of storm, issues related to sample collection, weather conditions, time of day samples were collected, and other information deemed pertinent by the lead sampler and/or coordinator.

The second sample will be collected near the peak of flow and will follow the same procedure as that of the initial rise on the hydrograph sample. The third sample will be collected along the recession limb of the hydrograph and will follow the same procedure as that of the other two sampling events. Again, the possibility exists that additional sample may be collected during the event with the most representative three sample groups being submitted for analyses (based on comparison with the appropriate stream hydrograph).

Contracted Laboratories

EAA field staff will drop off samples at EAA-contracted laboratories or have samples picked up at the EAA offices. Samples will be analyzed within proper holding times.

Equipment Blanks

Equipment blanks consist of ASTM II, reagent-grade water poured over/through any sampling equipment used for collection of definitive samples. Most sample-collection equipment is disposable; however, in some cases, an equipment blank may be required. Equipment blanks are used to assess the effectiveness of decontamination procedures (for new materials provided to the EAA or from EAA's decontamination processes) and are designated as *EB* on the COC. The frequency of collection of equipment blanks will depend on the sampling routine and sampling equipment in use. Collection of equipment blanks will be designated prior to sample-collection events.

Trip Blanks

Trip blanks are used to assess potential volatile organic contamination during sample custody in the field and shipment to the receiving laboratory. Trip blanks are submitted with characteristic samples to the laboratory to verify that volatile organic contamination has not occurred from outside influences during sample handling to transport (such as absorption through the septa.)

Trip blanks consist of two 40-mL vials filled with ASTM Type II reagent-grade water prepared by the contracted laboratory. Trip blanks will remain unopened until they are received at the contracted laboratory.

Sample Identification, Handling, and Documentation

Samples will be identified, handled, and recorded as described in the preceding sections of this document.

Records

Field sheets and COCs will be kept in a bound field log book. The following will be recorded using waterproof ink on these sheets and in the field notebook:

- Names of sampling personnel
- Weather conditions
- Project name
- Date and time of sampling
- Analyses to be performed by EAA-contracted laboratory
- Equipment-calibration information
- Field-parameter measurements
- Irregularities, problems, or delays

APPENDIX G—Equipment-Decontamination Procedures

Decontamination

Proper decontamination of all equipment used in the sample-collection process is essential to obtaining quality, representative samples. Improperly decontaminated equipment is capable of causing cross-contamination between sample sites, resulting in samples that are not representative of in situ site conditions. The objective of this appendix is to provide a set of decontamination procedures applicable to various EAA equipment and sampling programs.

Whereas many different protocols exist for decontamination, ASTM Standard D 5088 is perhaps the most commonly referenced protocol. The methods outlined here are tailored to EAA sampling environments and programs.

Basic Decontamination Procedure—Groundwater, Surface Water, and Spring Sampling Equipment

When possible, equipment that comes into contact with sample media will be single-use (disposable) equipment or dedicated equipment. Having such equipment helps reduce the possibility of cross-contamination of samples. However, for many sample types, such dedicated equipment may not be possible. As such, a listing of equipment that may be used to collect a water sample (groundwater, surface water, or spring) would include

- Grundfos submersible pump and associated pump tubing
- Peristaltic pump tubing
- Sample dippers
- Surface water churn

Other equipment that *may* come into direct contact with sample media of concern includes

- Water level measurement devices (steel tape and e-lines)
- Field-parameter probes
- Downhole geophysical equipment

Equipment that will have direct contact with any sample media will be decontaminated prior to use for sample collection or prior to introduction into the well, surface water site, or spring vent, as applicable.

Grundfos Submersible Pumps

Decontamination will be accomplished as follows for submersible well pumps. Sampler will wear new, disposable, nitrile (or equivalent) gloves to perform the decontamination.

Materials needed:

- Submersible pump, pump controller, and pump tubing
- 33-gallon trashcan (dedicated for decon use only)
- Alconox® or laboratory-grade soap
- DI water
- Large plastic bags or foil
- Plastic sheeting
- Clean scrub brush(es)

The designated trashcan will be rinsed with fresh, potable water and subsequently filled with potable water and laboratory-grade soap (per soap label directions).

When the container is approximately 80% full, the pump will be lowered, with heat shield attached, into the trashcan. The pump should be suspended at least six inches off the bottom of the trashcan. The pump will then be activated and allowed to discharge outside of the trashcan for at least 30 seconds. After the initial discharge, pump tubing will be directed into the trashcan such that the decontamination mixture is recirculated through the pump and tubing. The pump should run/recirculate a minimum of ten pump-tubing volumes (about 40 gallons) through the system. This process should take about 15 to 20 minutes.

Note: in the event that the pump or tubing has sediment or other foreign matter on it, a step will be added. A clean scrub brush will be used to remove any sediment or other foreign matter from the equipment manually prior to the circulation process.

Next, the decontamination mixture will be allowed to pump out of the trashcan into the sink (the pump should not be allowed to run dry or cavitate). The pump and tubing will be placed on a clean surface (plastic sheet) and the trashcan rinsed in clean water. The pump will be rinsed and placed back into the trashcan. The pump is to be allowed to discharge outside of the trashcan until the soapy water is evacuated from the tubing. The discharge tubing will then be placed back into the trashcan and more clean water added if needed. The freshwater will be recirculated through the pump and into the trashcan for a minimum of ten volumes (about 40 gallons). Once circulation is complete, the pump will be allowed to discharge outside the trashcan until nearly empty (again, the pump should not be allowed to run dry or cavitate). Next, a final rinse of DI water will be provided on the pump and tubing, an adequate volume being used to ensure that the pump and tubing are well rinsed.

Upon completion of the decontamination procedure, the pump will be sealed in a clean plastic bag, and the end of the pump tubing will be sealed in its own clean plastic bag. A

rubber band can be used to affix the bags around the apparatus. Pump and hose assembly are to be stored indoors when not in use, away from any sources of cross-contamination.

Tubing Decontamination for Peristaltic Pumps:
Decontamination should be accomplished as follows for peristaltic pump tubing. Sampler will wear new, disposable, nitrile (or equivalent) gloves to perform the decontamination.

Materials needed:

- Four five- or seven-gallon plastic buckets (for decon use only)
- Alconox® or laboratory-grade soap
- DI water
- Large plastic bags that can be sealed (large zip-top bags)
- Plastic sheeting
- Clean scrub brush(s)

The designated buckets will be rinsed in fresh, potable water. The first bucket will be subsequently filled with potable water and laboratory-grade soap (per soap label directions). The next two buckets will be filled with clean tap water. All three decontamination buckets are to be placed on top of a clean sheet of plastic sufficiently long to provide a clean surface on which all decontamination can take place. Decon buckets are to be placed in order on the sheet, with the soap bucket first, followed by the two rinse buckets. Decontamination should proceed such that each step is always followed in order from most contaminated to least contaminated (i.e., from prewash if needed, to soap–water mixture, to first rinse bucket, to second rinse bucket, to final DI water rinse).

Any excess foreign material will be removed from the tubing, first by wiping or scrubbing with soap and water mixture (if needed). The suction side of the tubing will be lowered into the soap–water bucket. The pump will be activated and allowed to discharge outside of the bucket until the soap–water mixture has initially purged the tubing. After the initial discharge, the pump tubing will be directed into the bucket such that the decontamination mixture is recirculated through the tubing. The pump will be allowed to run a minimum of ten pump-tubing volumes through the system (or about eight to ten gallons).

Next, the suction end of the tubing will be placed into the first rinse bucket and the pump allowed to discharge into the soap bucket until the soapy water is evacuated from the tubing. The discharge side of the tubing will then be placed back into the first rinse bucket. The freshwater will be allowed to recirculate through the pump and into the first rinse bucket for a minimum of ten volumes (or about eight to ten gallons). Once circulation is complete, the process will be repeated using the second rinse bucket. Final rinse is to be accomplished by pumping/recirculating DI water through the tubing for a minimum of ten volumes, using the third rinse bucket filled with DI water. Next, a final

rinse of DI water will be provided on the outside of the tubing using an adequate volume to ensure that the tubing is well rinsed. This final rinse will complete the decontamination process.

Upon completion of the decontamination procedure, the tubing will be allowed to dry and the tubing seal placed in a plastic bag to prevent exposure to cross-contamination. Bagged tubing is to be stored indoors when not in use away from any sources of cross-contamination.

Note: peristaltic tubing for EAHCP samples is dedicated tubing and is to be stored in *labeled* bags. The bag label will have the name of the sample point written on the outside of it. EAHCP-related tubing is not to be used for any other applications.

Decontamination of Other Equipment Used in Collection of Water or Soil Samples

Decontamination will be accomplished as follows for other equipment that will come into direct contact with sample media (dippers, churns, sample probes—if placed into sample media, water level measurement devices, soil sampling devices, or trowels). Sampler will wear new, disposable, nitrile (or equivalent) gloves to perform the decontamination.

Materials needed:

- Sample-collection device (dipper, churn, etc.) or field meter (applies only to that part of the probe exposed to sample media) or water level measurement device
- Three five- or seven-gallon plastic buckets (for decon use only)
- Alconox® or laboratory-grade soap
- DI water
- Large plastic bags or foil
- Plastic sheeting
- Clean scrub brush

Designated buckets will be rinsed in fresh, potable water. The first bucket will be subsequently filled with potable water and laboratory-grade soap (per soap label directions). The remaining two buckets will be filled with clean tap water. All three decontamination buckets are to be placed on top of a clean sheet of plastic sufficiently long to provide a clean surface on which all decontamination will take place. Decon buckets are to be placed in order on the sheet, with the soap bucket first, followed by the two rinse buckets. Decontamination will proceed such that each step is always followed in order from most contaminated to least contaminated (i.e., from prewash if needed, to soap–water mixture, to first rinse bucket, to second rinse bucket, to final DI water rinse).

Any excess sediment or foreign matter will be removed from the device by gentle scrubbing and rinsing with water prior to placement into the soap–water mixture. The

sampling device will be placed into the soap–water mixture and gently scrubbed (all surfaces that will come into contact with sample media must be cleaned).

Note: the surface water churn may not fit in the bucket(s), as such the churn may be cleaned in the 33-gallon trashcan, or it may be cleaned by some of the soap–water mixture being poured into the churn. The churn will be cleaned with the soap–water mixture; double rinsed in clean, potable water; and provided a final rinse in DI water.

Upon completion of the soap–water wash, each device being decontaminated must be double rinsed (i.e., buckets two and three) in clean, potable water, followed by a final rinse in DI water. Upon completion of decontamination, equipment will be allowed to dry and stored such that it is not exposed to potential contaminants. Equipment should be stored in plastic bags or wrapped in foil to further insulate it from potential contamination.

Note: decontamination buckets are to be monitored when used for multiple items to ensure that the soap–water mixture does not become spent or ineffective. They are to be replaced as needed. Also, rinse water should be replaced regularly when it appears to have a significant accumulation of soap.

Special Decontamination Procedures
Downhole or soil-sampling equipment may be decontaminated generally by one of the applicable processes outlined above. However, in rare cases, a tool or device that is not disposable may be exposed to hydrocarbon residue or, in rarer cases, high concentrations of heavy metals may occur. In such a scenario, the tool may (at the discretion of management) require a more elaborate decontamination procedure.

Exposure to Hydrocarbons
In the event that a tool is exposed to free-product hydrocarbons, an additional step in the decontamination process may be required that will involve spraying the tool with pesticide-grade methanol or hexane prior to the final DI water rinse. Use of solvents in this case serves to remove any hydrocarbon residual from the tool.

Exposure to Heavy Metals
In the event that a tool or device is exposed to heavy metals, and the sample media are being analyzed for these same metals, another step in the decontamination process may be required. In this case, the tool may require a spray rinse with dilute (10%) hydrochloric or nitric acid prior to DI water rinse. Use of acid in this situation will act to remove residual metals from the tool.

Note: use of solvents or acids is only to be pursued if directed by management. Use of these products can be hazardous and can also present issues regarding disposal of the waste products themselves. Use of the products may also damage sampling equipment in

some cases. In the vast majority of cases, the standard washing and rinsing procedures described herein are adequate for proper decontamination of sampling equipment. Analysis of equipment blanks will be pursued when needed so that the decontamination process might be assessed. It is the responsibility of the sampler to notify management if a tool is suspected of any unusual exposure

APPENDIX E

PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

Comal and San Marcos springs, Texas

PHOTOGRAPH 1.
Surface water grab sample collection, March 16, 2015;
sample location HCS160.

PHOTOGRAPH 2.
Field filtering surface water grab samples, March 24, 2015;
sample location HSM150.

PHOTOGRAPH 3.
Stormwater sample collection, January 23, 2015;
sample location HCS240.

PHOTOGRAPH 4.
Alkalinity analysis of stormwater samples, January 23, 2015.

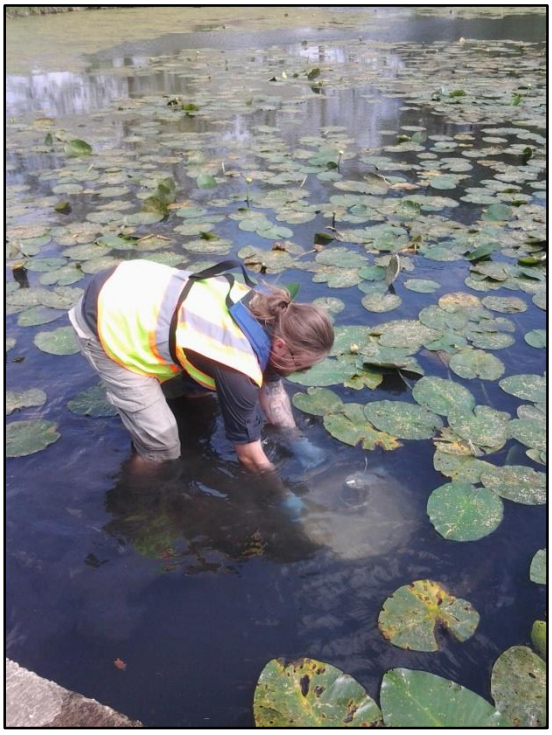
PHOTOGRAPH 5.
Sediment sample collected with core sampler, June 4, 2015; sample location HCS330.

PHOTOGRAPH 6.
Sediment sample collected with trowel, June 5, 2015; sample location HSM310.

PHOTOGRAPH 7.
Sediment sample collected with trowel, June 5, 2015;
sample location HSM320.

PHOTOGRAPH 8.
PDS deployment device in water, April 2015;
sample location HSM440.

PHOTOGRAPH 9.
Removing sampler from PDS deployment device upon retrieval, April 21, 2015; sample location HCS420.



PHOTOGRAPH 10.
Installing PDS deployment device, April 7, 2015; sample location HSM410.

APPENDIX F

RECORD OF STORMWATER SAMPLING

January 2015 – Necessary supplies and equipment were restocked and assembled.

January 2015 (and prior to each subsequent event) – Sample kits, labels and Chain-of-Custody (COC) forms were received from the contract laboratory and sampling containers, and coolers were labeled by SWCA staff. Staff went on standby for sampling events.

May 11, 2015 – SWCA contacted the EAA regarding the timeline for stormwater sampling. The overall goal of the program is to sample each system at the beginning and end of the year. EAA requested SWCA hold stormwater sampling until after June 1, 2015.

June 3, 2015 – EAA requested SWCA extend stormwater sampling hold until July 1, 2015.

July 1, 2015 – SWCA sampling teams returned to on-call status and began monitoring forecasts for stormwater sampling.

COMAL SPRINGS COMPLEX

January 21–23, 2015 – Staff mobilized to New Braunfels in response to a storm event forecast in the Comal Springs area. Light intermittent rain fell from approximately 17:00 to 22:30 on January 21, 2015, without causing a significant change to water quality parameters provided by the RTI data. More intense rain was forecasted for approximately 1:00 on January 22, 2015, SWCA staff contacted EAA staff Gizelle Luevano and Marcus Gary to confirm that sampling would still be valid if that rainfall occurred. EAA staff concurred that sampling later in the night would still be valid and SWCA staff continued to monitor water quality parameters on Environet and discharge readings from the USGS Gauge 08170500.

More intense rain did begin late on January 21, 2015, and SWCA staff determined that discharge and water quality parameters were beginning to change and the storm system would produce enough precipitation to trigger a sampling event. The EAA was notified and sampling began at approximately 00:20 on January 22, 2015.

The storm was slow moving and rain continued through January 23, 2015. Conductivity began decreasing at a slower rate between 02:30 and 02:45 and began to increase slightly at 03:00. It appeared the storm had reached its peak but more rain appeared on the radar so peak sampling was not initiated. Conductivity began to decrease again until 08:00, sampling teams mobilized and collected a peak sample. By 09:15 conductivity began decreasing again and discharge increased indicating the storm had not peaked. Sampling teams mobilized to collect peak sample sets again at 10:00 and 11:30 only to have discharge water quality parameters continue to change. The true peak of the storm was reached and sampled at approximately 16:15 on January 22, 2015. All samples collected during earlier peak runs were discarded and not analyzed.

SWCA staff continued to monitor water quality and collected the trail samples for the event beginning at approximately 03:00 on January 23, 2015. At that time discharge had reached 50% recovery and additional rain was beginning to move into the area that could have potentially affected the recovery of

the water quality parameters. The area received 2 to 2.5 inches of rain (NOAA 2015). Discharge increased from approximately 141 to 420 cfs at the peak of the storm (USGS 2015). Staging and alkalinity processing occurred at Heidelberg Lodges in New Braunfels, Texas.

August 20, 2015 – SWCA staff monitored weather forecasts and radar imagery during the morning and early afternoon hours of August 20, 2015. Forecasts varied widely and only briefly showed a slightly greater than 50% chance of 0.5 inch of rain in the area surrounding the Comal Springs system. Chances of precipitation did not exceed 50% in San Marcos. SWCA did not mobilize to either system. Some precipitation did occur, but real-time water quality data did not meet appropriate sampling conditions. RTI data is shown in Figure 1 below.

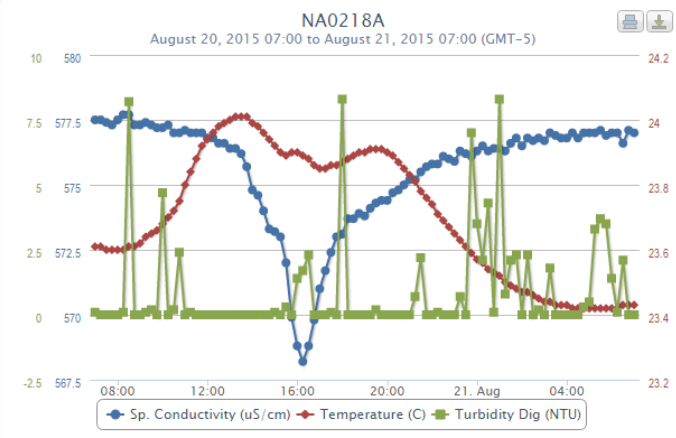


Figure 1. Real-time water quality data Aug 20, 2015.

September 10, 2015 – SWCA staff monitored weather forecasts for both Comal and San Marcos springs as some precipitation was forecasted in both areas. The forecasts were inconsistent with the amount and locations of predicted precipitation but SWCA staff anticipated potential rain events in the afternoon of September 10, 2015. Surface water collection was scheduled for the San Marcos Springs system on September 10, while sampling a short, but intense, rainfall event did occur. The surface water samples were discarded and the team returned to SWCA offices. The forecast in New Braunfels appeared very favorable for the evening hours and SWCA staff mobilized to the area. It rained for a short time and staff collected the lead sample set. Unfortunately, the rain stopped and a full event was not captured. The samples were discarded. A full event did occur in the San Marcos Springs complex but the precipitation occurring earlier in the day violated the antecedent dry period for stormwater sampling.

October 21, 2015 – SWCA staff monitored weather forecasts for both Comal and San Marcos spring complexes. Greater than 50% chance of greater than 0.5 inch of precipitation was forecasted for both spring complexes. One team was deployed to San Marcos. Sample equipment and sample kits were stationed at the San Marcos Nature Center. Insufficient rainfall occurred on October 21, 2015, but more precipitation was forecasted for early the next morning.

Forecasts were checked throughout the night and teams were informed at 02:30 to mobilize to both spring complexes by 06:00 on October 22, 2015. No precipitation occurred during the morning of October 22, 2015, and teams demobilized. More precipitation was forecasted for October 23, 2015.

Weather forecasts were monitored throughout the night and one team mobilized to each spring complex in the early morning hours. Precipitation began in New Braunfels late in the morning. As soon as the RTI data indicated a notable change in water quality from stormwater, sampling of the lead samples began. Monitoring continued and the peak and trail sample sets were collected in the afternoon and early evening of October 23, 2015.

SAN MARCOS SPRINGS COMPLEX

January 29–30, 2015 – Staff were aware of a storm forecast for the San Marcos area January 29–30, 2015. As the date approached, staff prepared for the event and continued to monitor the storm. The storm changed course and only the edge of the storm passed over San Marcos. Sampling teams did not deploy but monitored radar, forecasts and water quality parameters over the weekend. The system did not produce enough precipitation to cause a change in water quality parameters.

March 7–8, 2015 – A storm was forecasted for the San Marcos area in the early morning hours of March 8, 2015. One sample team deployed to the San Marcos Nature Center late on the evening on March 7, 2015, ahead of the anticipated storm. Rain began at approximately 4:00 on March 8, 2015. Additional sampling teams were called to the area. A lead sample collection began at approximately 5:00 when water quality parameters began to change. Unfortunately, the storm dissipated before enough precipitation fell to qualify as a full storm event. More rain was forecasted for the evening of March 8, 2015, but after consultation with EAA staff it was determined that rain later that day would constitute a separate event. The effort was cancelled and samples were disposed of.

March 17, 2015 – SWCA sampling teams monitored weather forecasts and radar and deployed to the Old Fish Hatchery building in San Marcos at approximately 17:00. The majority of the storm did not pass directly over San Marcos. Light rain fell intermittently but did not change water quality parameters. Sampling teams remained in place because radar continued to show rain moving toward the area. The sampling effort was cancelled at approximately 01:00 on March 18, 2015.

March 20, 2015 – A storm was forecasted for the San Marcos area in the afternoon of March 20, 2015. Sampling teams deployed to the area at approximately 14:30. Rain began to fall and water quality parameters began to change. Lead sample collection began at 15:45. The rain stopped but more was forecasted throughout the evening. The team remained in place overnight, ready to continue sampling. Additional rain that fell overnight was light and water quality parameters recovered before reaching levels that would qualify the event for sampling. The effort was cancelled and samples were discarded.

April 16, 2015 – SWCA sampling teams deployed to the San Marcos Nature Center in response to a storm occurring in the San Marcos area in the afternoon of April 16, 2015. Lead sample collection was initiated at approximately 17:00. Sampling continued through the evening until the final peak sample was

collected at approximately 23:45. A full event was sampled however a delay in shipping caused the samples to reach the laboratory well outside of acceptable temperature ranges and some holding times. The samples were not analyzed and were discarded.

May 5–6, 2015 – SWCA sampling teams deployed to the San Marcos Nature Center in the evening on May 5, 2015. Lead sampling was initiated at approximately 21:45 after significant rain began and water quality parameters began to change. The river responded rapidly to the storm event and sampling teams initiated peak sampling immediately following lead sample collection. Peak samples were initiated at approximately 23:15. SWCA staff transported samples back to the SWCA offices in San Antonio for processing and packaging for shipment. One sampling team remained in place in San Marcos to collect the trail samples. Trail samples were initiated at approximately 01:30 on May 6, 2015, after specific conductivity passed 50% recovery.

Filtration for the metals and alkalinity samples was performed at the SWCA San Antonio office utilizing a peristaltic pump. New disposable bailers were used to collect HSM240 Peak and HSM240 Trail samples. *E. coli* samples were delivered to the San Antonio River Authority (SARA) laboratory when it opened the morning of May 6, 2015. Due to the overnight collection of samples, it was not possible to deliver samples to the SARA laboratory within the 6-hour hold time.

October 21, 2015 – SWCA staff monitored weather forecasts for both Comal and San Marcos spring complexes. A greater than 50% chance of greater than 0.5 inch of precipitation was forecasted for both spring complexes. One team was deployed to San Marcos. Sample equipment and sample kits were stationed at the San Marcos Nature Center. Insufficient rainfall occurred on October 21, 2015, but more precipitation was forecasted for early the next morning.

Forecasts were checked throughout the night and teams were informed at 02:30 to mobilize to both spring complexes by 06:00 on October 22, 2015. No precipitation occurred during the morning of October 22, 2015, and teams demobilized. More precipitation was forecasted for October 23, 2015.

Weather forecasts were monitored throughout the night and one team mobilized to each spring complex in the early morning hours. Precipitation began in San Marcos in the early afternoon. As soon as the RTI data indicated a notable change in water quality from stormwater, sampling of the lead samples began. Monitoring continued and the peak and trail sample sets were collected in the afternoon and evening of October 23, 2015.

APPENDIX G

LABORATORY REPORTS

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

March 20, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 110
Sample Number: AA93406
Sample Matrix: Non Potable Water

Collection Date/Time: 3/16/15 12:44
Receipt Date/Time: 3/16/15 15:16

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA93406-A	E. coli	√	SM 9223B-2004	4	MPN/100 mL		1	42074	3/16/15	16:20	RSC
AA93406-A	E. Coli Holding Time - IDEXX Colilert		NA	3.60	hours		0.00	42073	3/16/15	16:20	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42074

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.0000			0.0	---	0.5

Jeanette Hernandez
Water Quality Planner / QAO

3/20/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

March 20, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 120
Sample Number: AA93407
Sample Matrix: Non Potable Water

Collection Date/Time: 3/16/15 13:20
Receipt Date/Time: 3/16/15 15:16

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA93407-A	E. coli	√	SM 9223B-2004	47	MPN/100 mL		1	42074	3/16/15	16:20	RSC
AA93407-A	E. Coli Holding Time - IDEXX Colilert		NA	3.00	hours		0.00	42073	3/16/15	16:20	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42074

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

3/20/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

March 20, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 130
Sample Number: AA93408
Sample Matrix: Non Potable Water

Collection Date/Time: 3/16/15 11:29
Receipt Date/Time: 3/16/15 15:16

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA93408-A	E. coli	√	SM 9223B-2004	59	MPN/100 mL		1	42074	3/16/15	16:20	RSC
AA93408-A	E. Coli Holding Time - IDEXX Colilert		NA	4.85	hours		0.00	42073	3/16/15	16:20	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42074

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

3/20/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

March 20, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 140
Sample Number: AA93409
Sample Matrix: Non Potable Water

Collection Date/Time: 3/16/15 13:52
Receipt Date/Time: 3/16/15 15:16

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA93409-A	E. coli	√	SM 9223B-2004	80	MPN/100 mL		1	42074	3/16/15	16:20	RSC
AA93409-A	E. Coli Holding Time - IDEXX Colilert		NA	2.47	hours		0.00	42073	3/16/15	16:20	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42074

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

3/20/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

March 20, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 160
Sample Number: AA93410
Sample Matrix: Non Potable Water

Collection Date/Time: 3/16/15 14:13
Receipt Date/Time: 3/16/15 15:16

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA93410-A	E. coli	√	SM 9223B-2004	60	MPN/100 mL		1	42074	3/16/15	16:20	RSC
AA93410-A	E. Coli Holding Time - IDEXX Colilert		NA	2.12	hours		0.00	42073	3/16/15	16:20	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42074

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

3/20/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

March 20, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: FD HCS 120
Sample Number: AA93411
Sample Matrix: Non Potable Water

Collection Date/Time: 3/16/15 13:20
Receipt Date/Time: 3/16/15 15:16

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA93411-A	E. coli	√	SM 9223B-2004	51	MPN/100 mL		1	42074	3/16/15	16:20	RSC
AA93411-A	E. Coli Holding Time - IDEXX Colilert		NA	3.00	hours		0.00	42073	3/16/15	16:20	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42074

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

3/20/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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WORK ORDER NUMBER: 15-03-1281

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: SWCA Environmental Consultants

Client Project Name: EAA 27122

Attention: Philip Pearce
6200 UTSA Blvd.
Suite 102
San Antonio, TX 78249-1618

Approved for release on 03/31/2015 by:
Don Burley
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Contents

Client Project Name: EAA 27122
Work Order Number: 15-03-1281

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Work Order Narrative

Work Order: 15-03-1281 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/17/15. They were assigned to Work Order 15-03-1281.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	SWCA Environmental Consultants 6200 UTSA Blvd., Suite 102 San Antonio, TX 78249-1618	Work Order:	15-03-1281
		Project Name:	EAA 27122
		PO Number:	
		Date/Time Received:	03/17/15 10:00
		Number of Containers:	63
Attn:	Philip Pearce		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
HCS 110	15-03-1281-1	03/16/15 12:44	9	Aqueous
HCS 120	15-03-1281-2	03/16/15 13:20	9	Aqueous
HCS 130	15-03-1281-3	03/16/15 11:29	9	Aqueous
HCS 140	15-03-1281-4	03/16/15 13:52	9	Aqueous
HCS 160	15-03-1281-5	03/16/15 14:13	9	Aqueous
FDHCS 120	15-03-1281-6	03/16/15 13:20	9	Aqueous
TB02	15-03-1281-7	03/16/15 00:00	9	Aqueous

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 110	**15-03-1281-1-F**	**03/16/15 12:44**	**Aqueous**	**ICP 7300**	**03/30/15**	**03/30/15 14:56**	**150330LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	64.1	0.100	0.0118	1.00	
Magnesium	16.8	0.100	0.00336	1.00	B
Potassium	1.39	0.500	0.103	1.00	
Sodium	12.4	0.500	0.103	1.00	
Strontium	0.678	0.0300	0.00277	1.00	
Silicon	0.655	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 120	**15-03-1281-2-F**	**03/16/15 13:20**	**Aqueous**	**ICP 7300**	**03/30/15**	**03/30/15 14:58**	**150330LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	87.2	0.100	0.0118	1.00	
Magnesium	16.3	0.100	0.00336	1.00	B
Potassium	1.65	0.500	0.103	1.00	
Sodium	13.4	0.500	0.103	1.00	
Strontium	0.690	0.0300	0.00277	1.00	
Silicon	4.44	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 130	**15-03-1281-3-F**	**03/16/15 11:29**	**Aqueous**	**ICP 7300**	**03/30/15**	**03/30/15 15:00**	**150330LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	84.2	0.100	0.0118	1.00	
Magnesium	16.4	0.100	0.00336	1.00	B
Potassium	1.63	0.500	0.103	1.00	
Sodium	14.4	0.500	0.103	1.00	
Strontium	0.696	0.0300	0.00277	1.00	
Silicon	4.35	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 140	**15-03-1281-4-F**	**03/16/15 13:52**	**Aqueous**	**ICP 7300**	**03/30/15**	**03/30/15 15:02**	**150330LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	85.1	0.100	0.0118	1.00	
Magnesium	16.6	0.100	0.00336	1.00	B
Potassium	1.68	0.500	0.103	1.00	
Sodium	13.7	0.500	0.103	1.00	
Strontium	0.708	0.0300	0.00277	1.00	
Silicon	4.47	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 160	**15-03-1281-5-F**	**03/16/15 14:13**	**Aqueous**	**ICP 7300**	**03/30/15**	**03/30/15 15:05**	**150330LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	86.7	0.100	0.0118	1.00	
Magnesium	17.0	0.100	0.00336	1.00	B
Potassium	1.71	0.500	0.103	1.00	
Sodium	14.5	0.500	0.103	1.00	
Strontium	0.722	0.0300	0.00277	1.00	
Silicon	4.48	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 120	**15-03-1281-6-F**	**03/16/15 13:20**	**Aqueous**	**ICP 7300**	**03/30/15**	**03/30/15 15:07**	**150330LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	85.6	0.100	0.0118	1.00	
Magnesium	16.2	0.100	0.00336	1.00	B
Potassium	1.67	0.500	0.103	1.00	
Sodium	13.0	0.500	0.103	1.00	
Strontium	0.668	0.0300	0.00277	1.00	
Silicon	4.44	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-683-1193**	**N/A**	**Aqueous**	**ICP 7300**	**03/30/15**	**03/30/15 17:20**	**150330LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	ND	0.100	0.0118	1.00	
Magnesium	0.00760	0.100	0.00336	1.00	J
Potassium	ND	0.500	0.103	1.00	
Sodium	ND	0.500	0.103	1.00	
Strontium	ND	0.0300	0.00277	1.00	
Silicon	ND	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 110	**15-03-1281-1-F**	**03/16/15 12:44**	**Aqueous**	**ICP/MS 03**	**03/19/15**	**03/23/15 15:42**	**150319LA1F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000118	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0371	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000547	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00170	0.00100	0.000132	1.00	
Selenium	0.000295	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0245	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0520	0.0500	0.00926	1.00	
Manganese	0.00243	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 120	**15-03-1281-2-F**	**03/16/15 13:20**	**Aqueous**	**ICP/MS 03**	**03/19/15**	**03/23/15 15:46**	**150319LA1F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0555	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000538	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00201	0.00100	0.000132	1.00	
Selenium	0.000334	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0239	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0460	0.0500	0.00926	1.00	J
Manganese	0.00178	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 130	**15-03-1281-3-F**	**03/16/15 11:29**	**Aqueous**	**ICP/MS 03**	**03/19/15**	**03/23/15 15:49**	**150319LA1F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0574	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000570	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00184	0.00100	0.000132	1.00	
Selenium	0.000347	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00384	0.00500	0.000479	1.00	J
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0468	0.0500	0.00926	1.00	J
Manganese	0.00459	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 140	**15-03-1281-4-F**	**03/16/15 13:52**	**Aqueous**	**ICP/MS 03**	**03/19/15**	**03/23/15 15:53**	**150319LA1F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0584	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000907	0.00100	0.000140	1.00	J
Lead	0.0000905	0.00100	0.0000898	1.00	J
Nickel	0.00197	0.00100	0.000132	1.00	
Selenium	0.000446	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0118	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0399	0.0500	0.00926	1.00	J
Manganese	0.00632	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 160	**15-03-1281-5-F**	**03/16/15 14:13**	**Aqueous**	**ICP/MS 03**	**03/19/15**	**03/23/15 15:57**	**150319LA1F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000107	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0598	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000607	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00216	0.00100	0.000132	1.00	
Selenium	0.000334	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0265	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0508	0.0500	0.00926	1.00	
Manganese	0.00991	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 120	**15-03-1281-6-F**	**03/16/15 13:20**	**Aqueous**	**ICP/MS 03**	**03/19/15**	**03/23/15 16:00**	**150319LA1F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000166	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0562	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000426	0.00100	0.000402	1.00	J
Copper	0.000783	0.00100	0.000140	1.00	J
Lead	0.000117	0.00100	0.0000898	1.00	J
Nickel	0.00225	0.00100	0.000132	1.00	
Selenium	0.000414	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0391	0.00500	0.000479	1.00	
Aluminum	0.00459	0.0500	0.00331	1.00	J
Iron	0.0555	0.0500	0.00926	1.00	
Manganese	0.00607	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-693-769**	**N/A**	**Aqueous**	**ICP/MS 03**	**03/19/15**	**03/23/15 13:26**	**150319LA1F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	ND	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	ND	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	ND	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	ND	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	ND	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 110	**15-03-1281-1-F**	**03/16/15 12:44**	**Aqueous**	**Mercury 04**	**03/18/15**	**03/18/15 19:02**	**150318L07F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 120	**15-03-1281-2-F**	**03/16/15 13:20**	**Aqueous**	**Mercury 04**	**03/18/15**	**03/18/15 19:04**	**150318L07F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 130	**15-03-1281-3-F**	**03/16/15 11:29**	**Aqueous**	**Mercury 04**	**03/18/15**	**03/18/15 19:06**	**150318L07F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 140	**15-03-1281-4-F**	**03/16/15 13:52**	**Aqueous**	**Mercury 04**	**03/18/15**	**03/18/15 19:08**	**150318L07F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 160	**15-03-1281-5-F**	**03/16/15 14:13**	**Aqueous**	**Mercury 04**	**03/18/15**	**03/18/15 19:15**	**150318L07F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 120	**15-03-1281-6-F**	**03/16/15 13:20**	**Aqueous**	**Mercury 04**	**03/18/15**	**03/18/15 19:17**	**150318L07F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-763-517**	**N/A**	**Aqueous**	**Mercury 04**	**03/18/15**	**03/18/15 18:48**	**150318L07F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
Units: ng/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 110	**15-03-1281-1-I**	**03/16/15 12:44**	**Aqueous**	**LC/TQ 2**	**03/19/15**	**03/23/15 15:29**	**150319L20**

Parameter	Result	RL	DF	Qualifiers
Caffeine	39	9.7	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	45	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 120	**15-03-1281-2-I**	**03/16/15 13:20**	**Aqueous**	**LC/TQ 2**	**03/19/15**	**03/23/15 15:38**	**150319L20**

Parameter	Result	RL	DF	Qualifiers
Caffeine	ND	9.8	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	44	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 130	**15-03-1281-3-I**	**03/16/15 11:29**	**Aqueous**	**LC/TQ 2**	**03/19/15**	**03/23/15 15:46**	**150319L20**

Parameter	Result	RL	DF	Qualifiers
Caffeine	ND	9.8	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	43	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 140	**15-03-1281-4-I**	**03/16/15 13:52**	**Aqueous**	**LC/TQ 2**	**03/19/15**	**03/23/15 15:54**	**150319L20**

Parameter	Result	RL	DF	Qualifiers
Caffeine	ND	9.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	43	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 160	**15-03-1281-5-I**	**03/16/15 14:13**	**Aqueous**	**LC/TQ 2**	**03/19/15**	**03/23/15 16:03**	**150319L20**

Parameter	Result	RL	DF	Qualifiers
Caffeine	ND	9.7	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	43	31-200	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
Units: ng/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 120	**15-03-1281-6-I**	**03/16/15 13:20**	**Aqueous**	**LC/TQ 2**	**03/19/15**	**03/23/15 16:11**	**150319L20**

Parameter	Result	RL	DF	Qualifiers
Caffeine	ND	9.8	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	42	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-376-11**	**N/A**	**Aqueous**	**LC/TQ 2**	**03/19/15**	**03/23/15 15:21**	**150319L20**

Parameter	Result	RL	DF	Qualifiers
Caffeine	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	46	31-200	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 110	**15-03-1281-1-I**	**03/16/15 12:44**	**Aqueous**	**GC 44**	**03/19/15**	**03/23/15 13:10**	**150319L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	50-135	
2,4,5,6-Tetrachloro-m-Xylene	89	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 120	**15-03-1281-2-I**	**03/16/15 13:20**	**Aqueous**	**GC 44**	**03/19/15**	**03/23/15 13:24**	**150319L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	50-135	
2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 130	**15-03-1281-3-I**	**03/16/15 11:29**	**Aqueous**	**GC 44**	**03/19/15**	**03/23/15 13:38**	**150319L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	114	50-135	
2,4,5,6-Tetrachloro-m-Xylene	98	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 140	**15-03-1281-4-I**	**03/16/15 13:52**	**Aqueous**	**GC 44**	**03/19/15**	**03/23/15 13:53**	**150319L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	118	50-135	
2,4,5,6-Tetrachloro-m-Xylene	106	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 160	**15-03-1281-5-I**	**03/16/15 14:13**	**Aqueous**	**GC 44**	**03/19/15**	**03/23/15 14:07**	**150319L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	101	50-135	
2,4,5,6-Tetrachloro-m-Xylene	90	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 120	**15-03-1281-6-I**	**03/16/15 13:20**	**Aqueous**	**GC 44**	**03/19/15**	**03/23/15 14:36**	**150319L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	50-135	
2,4,5,6-Tetrachloro-m-Xylene	90	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-529-792**	**N/A**	**Aqueous**	**GC 44**	**03/19/15**	**03/20/15 13:25**	**150319L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	107	50-135	
2,4,5,6-Tetrachloro-m-Xylene	113	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 110	**15-03-1281-1-I**	**03/16/15 12:44**	**Aqueous**	**GC 58**	**03/19/15**	**03/20/15 19:21**	**150319L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	50-135	
2,4,5,6-Tetrachloro-m-Xylene	73	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 120	**15-03-1281-2-I**	**03/16/15 13:20**	**Aqueous**	**GC 58**	**03/19/15**	**03/20/15 19:39**	**150319L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	92	50-135	
2,4,5,6-Tetrachloro-m-Xylene	77	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 130	**15-03-1281-3-I**	**03/16/15 11:29**	**Aqueous**	**GC 58**	**03/19/15**	**03/20/15 19:57**	**150319L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	103	50-135	
2,4,5,6-Tetrachloro-m-Xylene	84	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 140	**15-03-1281-4-I**	**03/16/15 13:52**	**Aqueous**	**GC 58**	**03/19/15**	**03/20/15 20:15**	**150319L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	107	50-135	
2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 160	**15-03-1281-5-I**	**03/16/15 14:13**	**Aqueous**	**GC 58**	**03/19/15**	**03/20/15 20:33**	**150319L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	50-135	
2,4,5,6-Tetrachloro-m-Xylene	77	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 120	**15-03-1281-6-I**	**03/16/15 13:20**	**Aqueous**	**GC 58**	**03/19/15**	**03/20/15 20:51**	**150319L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	92	50-135	
2,4,5,6-Tetrachloro-m-Xylene	79	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-533-1015**	**N/A**	**Aqueous**	**GC 58**	**03/19/15**	**03/20/15 19:03**	**150319L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	91	50-135	
2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 110	**15-03-1281-1-I**	**03/16/15 12:44**	**Aqueous**	**GC 35**	**03/19/15**	**03/20/15 13:01**	**150319L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	103	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 120	**15-03-1281-2-I**	**03/16/15 13:20**	**Aqueous**	**GC 35**	**03/19/15**	**03/20/15 13:47**	**150319L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0051	0.0029	1.00	
Bolstar	ND	0.0051	0.0029	1.00	
Chlorpyrifos	ND	0.0051	0.0024	1.00	
Coumaphos	ND	0.0051	0.0025	1.00	
Diazinon	ND	0.0051	0.0029	1.00	
Dichlorvos	ND	0.0051	0.0037	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0051	0.0026	1.00	
Fensulfothion	ND	0.0051	0.0029	1.00	
Fenthion	ND	0.0051	0.0027	1.00	
Merphos	ND	0.0051	0.0027	1.00	
Methyl Parathion	ND	0.0051	0.0030	1.00	
Mevinphos	ND	0.0051	0.0028	1.00	
Naled	ND	0.041	0.020	1.00	
Phorate	ND	0.0051	0.0026	1.00	
Ronnel	ND	0.0051	0.0033	1.00	
Stirophos	ND	0.020	0.0090	1.00	
Tokuthion	ND	0.0051	0.0029	1.00	
Trichloronate	ND	0.0051	0.0021	1.00	
Demeton-o/s	ND	0.0051	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	98	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 130	**15-03-1281-3-I**	**03/16/15 11:29**	**Aqueous**	**GC 35**	**03/19/15**	**03/20/15 14:33**	**150319L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	96	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 140	**15-03-1281-4-I**	**03/16/15 13:52**	**Aqueous**	**GC 35**	**03/19/15**	**03/20/15 15:19**	**150319L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	102	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 160	**15-03-1281-5-I**	**03/16/15 14:13**	**Aqueous**	**GC 35**	**03/19/15**	**03/20/15 16:04**	**150319L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	98	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 120	**15-03-1281-6-I**	**03/16/15 13:20**	**Aqueous**	**GC 35**	**03/19/15**	**03/20/15 16:50**	**150319L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	94	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-963-90**	**N/A**	**Aqueous**	**GC 35**	**03/19/15**	**03/20/15 10:44**	**150319L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	95	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 110	**15-03-1281-1-I**	**03/16/15 12:44**	**Aqueous**	**GC 40**	**03/23/15**	**03/24/15 16:43**	**150323L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	82	0-123	

HCS 120	15-03-1281-2-I	03/16/15 13:20	Aqueous	GC 40	03/23/15	03/24/15 17:06	150323L02

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	76	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 130	**15-03-1281-3-I**	**03/16/15 11:29**	**Aqueous**	**GC 40**	**03/23/15**	**03/24/15 17:29**	**150323L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	77	0-123	

HCS 140	15-03-1281-4-I	03/16/15 13:52	Aqueous	GC 40	03/23/15	03/24/15 17:52	150323L02

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	77	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 160	**15-03-1281-5-I**	**03/16/15 14:13**	**Aqueous**	**GC 40**	**03/23/15**	**03/24/15 18:15**	**150323L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	88	0-123	

FDHCS 120	15-03-1281-6-I	03/16/15 13:20	Aqueous	GC 40	03/23/15	03/24/15 18:38	150323L02

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	81	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-034-639**	**N/A**	**Aqueous**	**GC 40**	**03/23/15**	**03/24/15 16:20**	**150323L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	118	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 110	**15-03-1281-1-H**	**03/16/15 12:44**	**Aqueous**	**GC/MS TT**	**03/18/15**	**03/19/15 17:57**	**150318L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.8	2.8	1.00	
Acenaphthylene	ND	9.8	2.8	1.00	
Aniline	ND	9.8	1.5	1.00	
Anthracene	ND	9.8	3.0	1.00	
Azobenzene	ND	9.8	2.6	1.00	
Benzidine	ND	49	6.4	1.00	
Benzo (a) Anthracene	ND	9.8	4.6	1.00	
Benzo (a) Pyrene	ND	9.8	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.8	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.8	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.8	3.2	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.8	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.8	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.8	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.8	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.8	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.8	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.8	2.3	1.00	
4-Chloroaniline	ND	9.8	1.9	1.00	
2-Chloronaphthalene	ND	9.8	2.7	1.00	
2-Chlorophenol	ND	9.8	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.8	2.6	1.00	
Chrysene	ND	9.8	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.8	2.9	1.00	
Di-n-Octyl Phthalate	ND	9.8	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.8	2.5	1.00	
Dibenzofuran	ND	9.8	2.8	1.00	
1,2-Dichlorobenzene	ND	9.8	3.0	1.00	
1,3-Dichlorobenzene	ND	9.8	3.0	1.00	
1,4-Dichlorobenzene	ND	9.8	2.8	1.00	
3,3'-Dichlorobenzidine	ND	25	2.5	1.00	
2,4-Dichlorophenol	ND	9.8	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.8	2.7	1.00	
Dimethyl Phthalate	ND	9.8	2.6	1.00	
2,4-Dimethylphenol	ND	9.8	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.8	2.3	1.00	
2,6-Dinitrotoluene	ND	9.8	2.3	1.00	
Fluoranthene	ND	9.8	3.0	1.00	
Fluorene	ND	9.8	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	9.8	2.8	1.00	
Hexachlorobenzene	ND	9.8	3.0	1.00	
Hexachlorocyclopentadiene	ND	25	6.8	1.00	
Hexachloroethane	ND	9.8	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.8	2.1	1.00	
Isophorone	ND	9.8	2.5	1.00	
2-Methylnaphthalene	ND	9.8	2.8	1.00	
1-Methylnaphthalene	ND	9.8	2.8	1.00	
2-Methylphenol	ND	9.8	2.1	1.00	
3/4-Methylphenol	ND	9.8	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.8	2.3	1.00	
N-Nitrosodimethylamine	ND	9.8	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.8	2.7	1.00	
Naphthalene	ND	9.8	2.8	1.00	
4-Nitroaniline	ND	9.8	2.1	1.00	
3-Nitroaniline	ND	9.8	2.2	1.00	
2-Nitroaniline	ND	9.8	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	9.8	1.6	1.00	
2-Nitrophenol	ND	9.8	2.5	1.00	
Pentachlorophenol	ND	9.8	4.6	1.00	
Phenanthrene	ND	9.8	2.9	1.00	
Phenol	ND	9.8	2.0	1.00	
Pyrene	ND	9.8	2.9	1.00	
Pyridine	ND	9.8	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.8	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.8	2.5	1.00	
2,4,5-Trichlorophenol	ND	9.8	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	03/17/15
6200 UTSA Blvd., Suite 102	Work Order:	15-03-1281
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 3 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	78	33-120	
2-Fluorophenol	46	24-120	
Nitrobenzene-d5	87	38-120	
p-Terphenyl-d14	84	41-137	
Phenol-d6	30	16-120	
2,4,6-Tribromophenol	77	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 120	**15-03-1281-2-H**	**03/16/15 13:20**	**Aqueous**	**GC/MS TT**	**03/18/15**	**03/19/15 18:16**	**150318L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	03/17/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-1281
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 6 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	86	33-120	
2-Fluorophenol	78	24-120	
Nitrobenzene-d5	97	38-120	
p-Terphenyl-d14	92	41-137	
Phenol-d6	57	16-120	
2,4,6-Tribromophenol	92	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 130	**15-03-1281-3-H**	**03/16/15 11:29**	**Aqueous**	**GC/MS TT**	**03/18/15**	**03/19/15 18:35**	**150318L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	03/17/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-1281
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 9 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	86	33-120	
2-Fluorophenol	55	24-120	
Nitrobenzene-d5	92	38-120	
p-Terphenyl-d14	88	41-137	
Phenol-d6	35	16-120	
2,4,6-Tribromophenol	87	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 140	**15-03-1281-4-H**	**03/16/15 13:52**	**Aqueous**	**GC/MS TT**	**03/18/15**	**03/19/15 18:53**	**150318L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	03/17/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-1281
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 12 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	90	33-120	
2-Fluorophenol	56	24-120	
Nitrobenzene-d5	96	38-120	
p-Terphenyl-d14	93	41-137	
Phenol-d6	36	16-120	
2,4,6-Tribromophenol	90	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 160	**15-03-1281-5-H**	**03/16/15 14:13**	**Aqueous**	**GC/MS TT**	**03/18/15**	**03/19/15 19:12**	**150318L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	03/17/15
6200 UTSA Blvd., Suite 102	Work Order:	15-03-1281
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 15 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	85	33-120	
2-Fluorophenol	71	24-120	
Nitrobenzene-d5	89	38-120	
p-Terphenyl-d14	85	41-137	
Phenol-d6	51	16-120	
2,4,6-Tribromophenol	84	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 120	**15-03-1281-6-H**	**03/16/15 13:20**	**Aqueous**	**GC/MS TT**	**03/18/15**	**03/19/15 19:31**	**150318L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	03/17/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-1281
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 18 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	88	33-120	
2-Fluorophenol	74	24-120	
Nitrobenzene-d5	95	38-120	
p-Terphenyl-d14	92	41-137	
Phenol-d6	54	16-120	
2,4,6-Tribromophenol	88	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-4010**	**N/A**	**Aqueous**	**GC/MS TT**	**03/18/15**	**03/19/15 16:38**	**150318L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.5	1.00	
Benzo (k) Fluoranthene	ND	10	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.7	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.8	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.5	1.00	
Dibenzofuran	ND	10	2.8	1.00	
1,2-Dichlorobenzene	ND	10	3.0	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	10	2.3	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.1	1.00	
Isophorone	ND	10	2.5	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.8	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.1	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.6	1.00	
Phenanthrene	ND	10	2.9	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.8	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	03/17/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-1281
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 21 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	88	33-120	
2-Fluorophenol	59	24-120	
Nitrobenzene-d5	90	38-120	
p-Terphenyl-d14	86	41-137	
Phenol-d6	38	16-120	
2,4,6-Tribromophenol	86	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 110	**15-03-1281-1-A**	**03/16/15 12:44**	**Aqueous**	**GC/MS BB**	**03/20/15**	**03/21/15 05:25**	**150320L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	107	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 120	**15-03-1281-2-A**	**03/16/15 13:20**	**Aqueous**	**GC/MS BB**	**03/20/15**	**03/21/15 05:52**	**150320L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	106	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 130	**15-03-1281-3-A**	**03/16/15 11:29**	**Aqueous**	**GC/MS BB**	**03/20/15**	**03/21/15 03:37**	**150320L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	108	78-126	
1,2-Dichloroethane-d4	110	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 140	**15-03-1281-4-A**	**03/16/15 13:52**	**Aqueous**	**GC/MS BB**	**03/20/15**	**03/21/15 06:19**	**150320L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	104	78-126	
1,2-Dichloroethane-d4	107	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 160	**15-03-1281-5-A**	**03/16/15 14:13**	**Aqueous**	**GC/MS BB**	**03/20/15**	**03/21/15 06:46**	**150320L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	103	78-126	
1,2-Dichloroethane-d4	110	75-135	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 120	**15-03-1281-6-A**	**03/16/15 13:20**	**Aqueous**	**GC/MS BB**	**03/20/15**	**03/21/15 07:13**	**150320L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	112	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB02	**15-03-1281-7-A**	**03/16/15 00:00**	**Aqueous**	**GC/MS BB**	**03/20/15**	**03/21/15 02:43**	**150320L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	108	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-16646**	**N/A**	**Aqueous**	**GC/MS BB**	**03/20/15**	**03/21/15 02:16**	**150320L025**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	80-120	
Dibromofluoromethane	104	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 110	**15-03-1281-1**	**03/16/15 12:44**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.25	0.10	0.025	1.00		mg/L	N/A	03/17/15	EPA 300.0
Chloride (24)	17	1.0	0.12	1.00		mg/L	N/A	03/17/15	EPA 300.0
Bromide (24)	ND	0.10	0.037	1.00		mg/L	N/A	03/17/15	EPA 300.0
Nitrate (as N) (24)	0.35	0.10	0.025	1.00		mg/L	N/A	03/17/15	EPA 300.0
Sulfate (24)	25	1.0	0.19	1.00		mg/L	N/A	03/17/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	03/23/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	189	5.00	0.848	1.00		mg/L	N/A	03/26/15	SM 2320B
Bicarbonate (as CaCO3) (24)	189	5.00	0.848	1.00		mg/L	N/A	03/26/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	03/26/15	SM 2320B
Solids, Total Dissolved (24)	295	1.00	0.820	1.00		mg/L	03/21/15	03/21/15	SM 2540 C
Solids, Total Suspended (24)	43	1.0	0.83	1.00		mg/L	03/23/15	03/23/15	SM 2540 D
pH (24)	7.78	0.01	0.01	1.00	BV,BU	pH units	N/A	03/17/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.84	0.50	0.28	1.00		mg/L	03/20/15	03/20/15	SM 4500 N Org B
Carbon, Total Organic (24)	8.1	2.5	1.2	5.00		mg/L	03/26/15	03/27/15	SM 5310 B
Carbon, Dissolved Organic (24)	10	0.50	0.24	1.00		mg/L	03/26/15	03/27/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 120	**15-03-1281-2**	**03/16/15 13:20**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.23	0.10	0.025	1.00		mg/L	N/A	03/17/15	EPA 300.0
Chloride (24)	17	1.0	0.12	1.00		mg/L	N/A	03/17/15	EPA 300.0
Bromide (24)	ND	0.10	0.037	1.00		mg/L	N/A	03/17/15	EPA 300.0
Nitrate (as N) (24)	1.7	0.10	0.025	1.00		mg/L	N/A	03/17/15	EPA 300.0
Sulfate (24)	29	1.0	0.19	1.00		mg/L	N/A	03/17/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	03/23/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	235	5.00	0.848	1.00		mg/L	N/A	03/26/15	SM 2320B
Bicarbonate (as CaCO3) (24)	235	5.00	0.848	1.00		mg/L	N/A	03/26/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	03/26/15	SM 2320B
Solids, Total Dissolved (24)	350	1.00	0.820	1.00		mg/L	03/21/15	03/21/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	03/23/15	03/23/15	SM 2540 D
pH (24)	7.36	0.01	0.01	1.00	BV,BU	pH units	N/A	03/17/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	03/20/15	03/20/15	SM 4500 N Org B
Carbon, Total Organic (24)	11	0.50	0.24	1.00		mg/L	03/26/15	03/27/15	SM 5310 B
Carbon, Dissolved Organic (24)	2.9	0.50	0.24	1.00		mg/L	03/26/15	03/27/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 130	**15-03-1281-3**	**03/16/15 11:29**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.23	0.10	0.025	1.00		mg/L	N/A	03/17/15	EPA 300.0
Chloride (24)	19	1.0	0.12	1.00		mg/L	N/A	03/17/15	EPA 300.0
Bromide (24)	0.10	0.10	0.037	1.00		mg/L	N/A	03/17/15	EPA 300.0
Nitrate (as N) (24)	1.8	0.10	0.025	1.00		mg/L	N/A	03/17/15	EPA 300.0
Sulfate (24)	34	1.0	0.19	1.00		mg/L	N/A	03/17/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	03/23/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	230	5.00	0.848	1.00		mg/L	N/A	03/26/15	SM 2320B
Bicarbonate (as CaCO3) (24)	230	5.00	0.848	1.00		mg/L	N/A	03/26/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	03/26/15	SM 2320B
Solids, Total Dissolved (24)	305	1.00	0.820	1.00		mg/L	03/21/15	03/21/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	03/23/15	03/23/15	SM 2540 D
pH (24)	7.42	0.01	0.01	1.00	BV,BU	pH units	N/A	03/17/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.28	0.50	0.28	1.00	J	mg/L	03/20/15	03/20/15	SM 4500 N Org B
Carbon, Total Organic (24)	3.9	0.50	0.24	1.00		mg/L	03/26/15	03/27/15	SM 5310 B
Carbon, Dissolved Organic (24)	2.4	0.50	0.24	1.00		mg/L	03/26/15	03/27/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 140	**15-03-1281-4**	**03/16/15 13:52**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.20	0.10	0.025	1.00		mg/L	N/A	03/17/15	EPA 300.0
Chloride (24)	18	1.0	0.12	1.00		mg/L	N/A	03/17/15	EPA 300.0
Bromide (24)	0.11	0.10	0.037	1.00		mg/L	N/A	03/17/15	EPA 300.0
Nitrate (as N) (24)	1.7	0.10	0.025	1.00		mg/L	N/A	03/17/15	EPA 300.0
Sulfate (24)	29	1.0	0.19	1.00		mg/L	N/A	03/17/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	03/23/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	229	5.00	0.848	1.00		mg/L	N/A	03/26/15	SM 2320B
Bicarbonate (as CaCO3) (24)	229	5.00	0.848	1.00		mg/L	N/A	03/26/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	03/26/15	SM 2320B
Solids, Total Dissolved (24)	330	1.00	0.820	1.00		mg/L	03/21/15	03/21/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	03/23/15	03/23/15	SM 2540 D
pH (24)	7.68	0.01	0.01	1.00	BV,BU	pH units	N/A	03/17/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.28	0.50	0.28	1.00	J	mg/L	03/20/15	03/20/15	SM 4500 N Org B
Carbon, Total Organic (24)	8.2	0.50	0.24	1.00		mg/L	03/26/15	03/27/15	SM 5310 B
Carbon, Dissolved Organic (24)	5.8	2.5	1.2	5.00		mg/L	03/26/15	03/27/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 160	**15-03-1281-5**	**03/16/15 14:13**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.20	0.10	0.025	1.00		mg/L	N/A	03/17/15	EPA 300.0
Chloride (24)	18	1.0	0.12	1.00		mg/L	N/A	03/17/15	EPA 300.0
Bromide (24)	0.14	0.10	0.037	1.00		mg/L	N/A	03/17/15	EPA 300.0
Nitrate (as N) (24)	1.7	0.10	0.025	1.00		mg/L	N/A	03/17/15	EPA 300.0
Sulfate (24)	32	1.0	0.19	1.00		mg/L	N/A	03/17/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	03/23/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	229	5.00	0.848	1.00		mg/L	N/A	03/26/15	SM 2320B
Bicarbonate (as CaCO3) (24)	229	5.00	0.848	1.00		mg/L	N/A	03/26/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	03/26/15	SM 2320B
Solids, Total Dissolved (24)	315	1.00	0.820	1.00		mg/L	03/21/15	03/21/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	03/23/15	03/23/15	SM 2540 D
pH (24)	7.81	0.01	0.01	1.00	BV,BU	pH units	N/A	03/17/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	03/20/15	03/20/15	SM 4500 N Org B
Carbon, Total Organic (24)	6.8	0.50	0.24	1.00		mg/L	03/26/15	03/27/15	SM 5310 B
Carbon, Dissolved Organic (24)	7.6	0.50	0.24	1.00		mg/L	03/26/15	03/27/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
FDHCS 120	**15-03-1281-6**	**03/16/15 13:20**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.22	0.10	0.025	1.00		mg/L	N/A	03/17/15	EPA 300.0
Chloride (24)	17	1.0	0.12	1.00		mg/L	N/A	03/17/15	EPA 300.0
Bromide (24)	ND	0.10	0.037	1.00		mg/L	N/A	03/17/15	EPA 300.0
Nitrate (as N) (24)	1.7	0.10	0.025	1.00		mg/L	N/A	03/17/15	EPA 300.0
Sulfate (24)	28	1.0	0.19	1.00		mg/L	N/A	03/17/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	03/23/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	235	5.00	0.848	1.00		mg/L	N/A	03/26/15	SM 2320B
Bicarbonate (as CaCO3) (24)	235	5.00	0.848	1.00		mg/L	N/A	03/26/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	03/26/15	SM 2320B
Solids, Total Dissolved (24)	335	1.00	0.820	1.00		mg/L	03/21/15	03/21/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	03/23/15	03/23/15	SM 2540 D
pH (24)	7.41	0.01	0.01	1.00	BV,BU	pH units	N/A	03/17/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.35	0.50	0.28	1.00	J	mg/L	03/20/15	03/20/15	SM 4500 N Org B
Carbon, Total Organic (24)	10	0.50	0.24	1.00		mg/L	03/26/15	03/27/15	SM 5310 B
Carbon, Dissolved Organic (24)	2.1	0.50	0.24	1.00		mg/L	03/26/15	03/27/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
Method Blank		**N/A**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	ND	0.10	0.025	1.00		mg/L	N/A	03/17/15	EPA 300.0
Chloride (24)	ND	1.0	0.12	1.00		mg/L	N/A	03/17/15	EPA 300.0
Bromide (24)	ND	0.10	0.037	1.00		mg/L	N/A	03/17/15	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.025	1.00		mg/L	N/A	03/17/15	EPA 300.0
Sulfate (24)	ND	1.0	0.19	1.00		mg/L	N/A	03/17/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	03/23/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	03/26/15	SM 2320B
Bicarbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	03/26/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	03/26/15	SM 2320B
Solids, Total Dissolved (24)	ND	1.0	0.82	1.00		mg/L	03/21/15	03/21/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	03/23/15	03/23/15	SM 2540 D
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	03/20/15	03/20/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	03/26/15	03/27/15	SM 5310 B
Carbon, Dissolved Organic (24)	ND	0.50	0.24	1.00		mg/L	03/26/15	03/27/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: N/A
Method: EPA 300.0

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-03-1250-1	**Sample**	**Aqueous**	**IC 7**	**N/A**	**03/17/15 14:47**	**150317S01**
15-03-1250-1	**Matrix Spike**	**Aqueous**	**IC 7**	**N/A**	**03/17/15 15:21**	**150317S01**
15-03-1250-1	**Matrix Spike Duplicate**	**Aqueous**	**IC 7**	**N/A**	**03/17/15 15:39**	**150317S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Fluoride	0.4690	250.0	229.8	92	239.5	96	80-120	4	0-20	
Chloride	36.76	5000	4952	98	4956	98	80-120	0	0-20	
Bromide	0.3610	500.0	510.3	102	509.4	102	80-120	0	0-20	
Nitrate (as N)	5.892	500.0	514.7	102	505.8	100	80-120	2	0-20	
Sulfate	294.4	5000	5132	97	5153	97	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 110	**Sample**	**Aqueous**	**ACA 1**	**N/A**	**03/23/15 17:40**	**150323LO1**
HCS 110	**Matrix Spike**	**Aqueous**	**ACA 1**	**N/A**	**03/23/15 17:40**	**150323LO1**
HCS 110	**Matrix Spike Duplicate**	**Aqueous**	**ACA 1**	**N/A**	**03/23/15 17:40**	**150323LO1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	ND	0.2000	0.1374	69	0.1364	68	90-110	1	0-25	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	03/17/15
6200 UTSA Blvd., Suite 102	Work Order:	15-03-1281
San Antonio, TX 78249-1618	Preparation:	N/A
	Method:	SM 5310 B
Project: EAA 27122		Page 3 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 110	**Sample**	**Aqueous**	**TOC 8**	**03/26/15**	**03/27/15 13:32**	**F0326TOCS2**
HCS 110	**Matrix Spike**	**Aqueous**	**TOC 8**	**03/26/15**	**03/27/15 13:32**	**F0326TOCS2**
HCS 110	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**03/26/15**	**03/27/15 13:32**	**F0326TOCS2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	8.100	50.00	72.00	128	67.50	119	31-145	6	0-23	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	03/17/15
6200 UTSA Blvd., Suite 102	Work Order:	15-03-1281
San Antonio, TX 78249-1618	Preparation:	N/A
	Method:	SM 5310 B
Project: EAA 27122		Page 4 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
FDHCS 120	**Sample**	**Aqueous**	**TOC 8**	**03/26/15**	**03/27/15 01:43**	**F0326DOCS1**
FDHCS 120	**Matrix Spike**	**Aqueous**	**TOC 8**	**03/26/15**	**03/27/15 01:43**	**F0326DOCS1**
FDHCS 120	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**03/26/15**	**03/27/15 01:43**	**F0326DOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	2.140	10.00	14.60	125	18.40	163	31-145	23	0-25	3

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	03/17/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-1281
San Antonio, TX 78249-1618		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
Project: EAA 27122			Page 5 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-03-2224-1	**Sample**	**Aqueous**	**ICP 7300**	**03/30/15**	**03/30/15 17:51**	**150330SA2**
15-03-2224-1	**Matrix Spike**	**Aqueous**	**ICP 7300**	**03/30/15**	**03/30/15 17:29**	**150330SA2**
15-03-2224-1	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**03/30/15**	**03/30/15 17:31**	**150330SA2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Calcium	69.32	0.5000	76.50	4X	74.12	4X	77-113	4X	0-11	Q
Magnesium	25.54	0.5000	28.50	4X	27.13	4X	56-140	4X	0-11	Q
Potassium	6.721	5.000	12.84	122	12.05	107	83-131	6	0-7	
Sodium	324.9	5.000	344.3	4X	337.2	4X	73-127	4X	0-9	Q
Strontium	0.7751	0.5000	1.358	117	1.338	112	81-123	2	0-6	
Silicon	4.873	0.5000	5.801	4X	5.559	4X	24-180	4X	0-15	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	03/17/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-1281
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: EAA 27122			Page 6 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 110	**Sample**	**Aqueous**	**ICP/MS 03**	**03/19/15**	**03/23/15 15:42**	**150319SA1**
HCS 110	**Matrix Spike**	**Aqueous**	**ICP/MS 03**	**03/19/15**	**03/23/15 14:35**	**150319SA1**
HCS 110	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 03**	**03/19/15**	**03/23/15 14:38**	**150319SA1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.1000	0.09644	96	0.09549	95	85-133	1	0-11	
Arsenic	ND	0.1000	0.09379	94	0.09376	94	73-127	0	0-11	
Barium	0.03710	0.1000	0.1371	100	0.1416	105	74-128	3	0-10	
Beryllium	ND	0.1000	0.09495	95	0.09408	94	56-122	1	0-11	
Cadmium	ND	0.1000	0.09338	93	0.09297	93	84-114	0	0-8	
Chromium	ND	0.1000	0.1037	104	0.1040	104	73-133	0	0-11	
Copper	ND	0.1000	0.1013	101	0.1006	101	72-108	1	0-10	
Lead	ND	0.1000	0.1011	101	0.1021	102	79-121	1	0-10	
Nickel	0.001702	0.1000	0.1003	99	0.1031	101	68-122	3	0-10	
Selenium	ND	0.1000	0.07938	79	0.07723	77	59-125	3	0-12	
Silver	ND	0.05000	0.04975	100	0.04920	98	68-128	1	0-14	
Thallium	ND	0.1000	0.1026	103	0.1031	103	73-121	0	0-11	
Zinc	0.02449	0.1000	0.09241	68	0.09593	71	43-145	4	0-39	
Aluminum	ND	0.1000	0.1631	163	0.2019	202	47-161	21	0-24	3
Iron	0.05202	5.100	5.922	115	6.415	125	27-201	8	0-24	
Manganese	0.002430	0.1000	0.1089	107	0.1133	111	72-126	4	0-42	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	03/17/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-1281
San Antonio, TX 78249-1618		Preparation:	EPA 7470A Total
		Method:	EPA 7470A
Project: EAA 27122			Page 7 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-03-1285-1	**Sample**	**Aqueous**	**Mercury 04**	**03/18/15**	**03/18/15 18:53**	**150318S07**
15-03-1285-1	**Matrix Spike**	**Aqueous**	**Mercury 04**	**03/18/15**	**03/18/15 18:55**	**150318S07**
15-03-1285-1	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 04**	**03/18/15**	**03/18/15 18:57**	**150318S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.0007127	0.01000	0.01092	102	0.01046	97	57-141	4	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

eurofins | Calscience

Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 130	**Sample**	**Aqueous**	**LC/TQ 2**	**03/19/15**	**03/23/15 15:46**	**150319S20**
HCS 130	**Matrix Spike**	**Aqueous**	**LC/TQ 2**	**03/19/15**	**03/23/15 16:19**	**150319S20**
HCS 130	**Matrix Spike Duplicate**	**Aqueous**	**LC/TQ 2**	**03/19/15**	**03/23/15 16:28**	**150319S20**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Caffeine	ND	100.0	107.1	107	101.5	101	70-130	5	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

eurofins | Calscience

Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 130	**Sample**	**Aqueous**	**GC/MS BB**	**03/20/15**	**03/21/15 03:37**	**150320S014**
HCS 130	**Matrix Spike**	**Aqueous**	**GC/MS BB**	**03/20/15**	**03/21/15 04:04**	**150320S014**
HCS 130	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS BB**	**03/20/15**	**03/21/15 04:31**	**150320S014**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	47.89	96	46.22	92	74-122	4	0-21	
Carbon Tetrachloride	ND	50.00	44.63	89	45.67	91	60-144	2	0-21	
Chlorobenzene	ND	50.00	50.61	101	51.11	102	73-120	1	0-22	
1,2-Dibromoethane	ND	50.00	51.91	104	51.07	102	80-122	2	0-20	
1,2-Dichlorobenzene	ND	50.00	48.22	96	49.71	99	70-120	3	0-26	
1,2-Dichloroethane	ND	50.00	53.56	107	51.63	103	64-142	4	0-20	
1,1-Dichloroethene	ND	50.00	47.34	95	47.20	94	52-136	0	0-21	
Ethylbenzene	ND	50.00	49.39	99	49.25	99	77-125	0	0-24	
Toluene	ND	50.00	47.89	96	47.19	94	72-126	1	0-23	
Trichloroethene	ND	50.00	48.68	97	46.71	93	74-128	4	0-22	
Vinyl Chloride	ND	50.00	39.28	79	42.61	85	67-133	8	0-20	
p/m-Xylene	ND	100.0	101.7	102	101.9	102	63-129	0	0-25	
o-Xylene	ND	50.00	51.46	103	51.54	103	62-128	0	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	48.83	98	47.65	95	68-134	2	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3005A Filt.
Method: EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
HCS 110	**Sample**	**Aqueous**	**ICP/MS 03**	**03/19/15 00:00**	**03/23/15 15:42**	**150319SA1**
HCS 110	**PDS**	**Aqueous**	**ICP/MS 03**	**03/19/15 00:00**	**03/23/15 14:42**	**150319SA1**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Antimony	ND	0.1000	0.1019	102	75-125	
Arsenic	ND	0.1000	0.09725	97	75-125	
Barium	0.03710	0.1000	0.1415	104	75-125	
Beryllium	ND	0.1000	0.09996	100	75-125	
Cadmium	ND	0.1000	0.09881	99	75-125	
Chromium	ND	0.1000	0.1069	107	75-125	
Copper	ND	0.1000	0.1015	101	75-125	
Lead	ND	0.1000	0.1061	106	75-125	
Nickel	0.001702	0.1000	0.1042	103	75-125	
Selenium	ND	0.1000	0.08272	83	75-125	
Silver	ND	0.05000	0.05097	102	75-125	
Thallium	ND	0.1000	0.1074	107	75-125	
Zinc	0.02449	0.1000	0.1144	90	75-125	
Aluminum	ND	0.1000	0.1335	133	75-125	5
Iron	0.05202	5.100	5.439	106	75-125	
Manganese	0.002430	0.1000	0.1135	111	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-03-1608-1	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**03/26/15 17:35**	**F0326ALKD1**
15-03-1608-1	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**03/26/15 17:35**	**F0326ALKD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	268.0	265.0	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-03-1608-1	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**03/26/15 17:35**	**F0326HCOD1**
15-03-1608-1	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**03/26/15 17:35**	**F0326HCOD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Bicarbonate (as CaCO3)	268.0	265.0	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-03-1608-1	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**03/26/15 17:35**	**F0326CO3D1**
15-03-1608-1	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**03/26/15 17:35**	**F0326CO3D1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Carbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HCS 110	**Sample**	**Aqueous**	**SC 5**	**03/21/15 00:00**	**03/21/15 15:00**	**F0321TDSD1**
HCS 110	**Sample Duplicate**	**Aqueous**	**SC 5**	**03/21/15 00:00**	**03/21/15 15:00**	**F0321TDSD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	295.0	310.0	5	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-03-1366-1	**Sample**	**Aqueous**	**N/A**	**03/23/15 00:00**	**03/23/15 17:00**	**F0323TSSD2**
15-03-1366-1	**Sample Duplicate**	**Aqueous**	**N/A**	**03/23/15 00:00**	**03/23/15 17:00**	**F0323TSSD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Suspended	170.0	167.0	2	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: N/A
Method: SM 4500 H+ B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HCS 110	**Sample**	**Aqueous**	**PH 1**	**N/A**	**03/17/15 11:56**	**F0317PHD1**
HCS 110	**Sample Duplicate**	**Aqueous**	**PH 1**	**N/A**	**03/17/15 11:56**	**F0317PHD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	7.780	7.790	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: N/A
Method: SM 4500 N Org B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-03-1267-1	**Sample**	**Aqueous**	**BUR05**	**03/20/15 00:00**	**03/20/15 17:46**	**F0320TKND1**
15-03-1267-1	**Sample Duplicate**	**Aqueous**	**BUR05**	**03/20/15 00:00**	**03/20/15 17:46**	**F0320TKND1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Total Kjeldahl Nitrogen	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	03/17/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-1281
San Antonio, TX 78249-1618		Preparation:	N/A
		Method:	EPA 300.0
Project: EAA 27122			Page 1 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-906-5530	**LCS**	**Aqueous**	**IC 7**	**N/A**	**03/17/15 11:45**	**150317L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Fluoride	2.500	2.478	99	90-110	
Chloride	50.00	49.34	99	90-110	
Bromide	5.000	5.168	103	90-110	
Nitrate (as N)	5.000	5.019	100	90-110	
Sulfate	50.00	49.20	98	90-110	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-739-101	**LCS**	**Aqueous**	**ACA 1**	**N/A**	**03/23/15 17:40**	**150323SO1**
099-12-739-101	**LCSD**	**Aqueous**	**ACA 1**	**N/A**	**03/23/15 17:40**	**150323SO1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.2000	0.1914	96	0.1979	99	90-110	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-859-629	**LCS**	**Aqueous**	**PH1/BUR03**	**N/A**	**03/26/15 17:35**	**F0326ALKB1**
099-15-859-629	**LCSD**	**Aqueous**	**PH1/BUR03**	**N/A**	**03/26/15 17:35**	**F0326ALKB1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	100.0	99.00	99	99.00	99	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-180-4482	**LCS**	**Aqueous**	**SC 5**	**03/21/15**	**03/21/15 15:00**	**F0321TDSL1**
099-12-180-4482	**LCSD**	**Aqueous**	**SC 5**	**03/21/15**	**03/21/15 15:00**	**F0321TDSL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100.0	105.0	105	110.0	110	80-120	5	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-010-7112	**LCS**	**Aqueous**	**N/A**	**03/23/15**	**03/23/15 17:00**	**F0323TSSB2**
099-09-010-7112	**LCSD**	**Aqueous**	**N/A**	**03/23/15**	**03/23/15 17:00**	**F0323TSSB2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Suspended	100.0	89.00	89	93.00	93	80-120	4	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-5569	**LCS**	**Aqueous**	**TOC 8**	**03/26/15**	**03/27/15 13:32**	**F0326TOCL2**
099-05-097-5569	**LCSD**	**Aqueous**	**TOC 8**	**03/26/15**	**03/27/15 13:32**	**F0326TOCL2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	10.00	9.970	100	10.70	107	80-120	7	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-115-1414	**LCS**	**Aqueous**	**TOC 8**	**03/26/15**	**03/27/15 01:43**	**F0326DOCL1**
099-05-115-1414	**LCSD**	**Aqueous**	**TOC 8**	**03/26/15**	**03/27/15 01:43**	**F0326DOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	10.00	10.30	103	10.30	103	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	03/17/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-1281
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B
Project: EAA 27122			Page 8 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-683-1193	**LCS**	**Aqueous**	**ICP 7300**	**03/30/15**	**03/30/15 17:22**	**150330LA2F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Calcium	0.5000	0.5074	101	80-120	
Magnesium	0.5000	0.5119	102	80-120	
Potassium	5.000	5.177	104	80-120	
Sodium	5.000	5.109	102	80-120	
Strontium	0.5000	0.5166	103	80-120	
Silicon	0.5000	0.4310	86	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	03/17/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-1281
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: EAA 27122			Page 9 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-693-769	**LCS**	**Aqueous**	**ICP/MS 03**	**03/19/15**	**03/23/15 13:29**	**150319LA1F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.1000	0.1037	104	80-120	73-127	
Arsenic	0.1000	0.1035	103	80-120	73-127	
Barium	0.1000	0.09899	99	80-120	73-127	
Beryllium	0.1000	0.1014	101	80-120	73-127	
Cadmium	0.1000	0.1039	104	80-120	73-127	
Chromium	0.1000	0.1068	107	80-120	73-127	
Copper	0.1000	0.1039	104	80-120	73-127	
Lead	0.1000	0.1002	100	80-120	73-127	
Nickel	0.1000	0.1017	102	80-120	73-127	
Selenium	0.1000	0.1056	106	80-120	73-127	
Silver	0.05000	0.05267	105	80-120	73-127	
Thallium	0.1000	0.09832	98	80-120	73-127	
Zinc	0.1000	0.1050	105	80-120	73-127	
Aluminum	0.1000	0.1146	115	80-120	73-127	
Iron	5.100	5.039	99	80-120	73-127	
Manganese	0.1000	0.1050	105	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	03/17/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-1281
San Antonio, TX 78249-1618		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A
Project: EAA 27122			Page 10 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-763-517	**LCS**	**Aqueous**	**Mercury 04**	**03/18/15**	**03/18/15 18:51**	**150318L07F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.009958	100	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	03/17/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-1281
San Antonio, TX 78249-1618		Preparation:	EPA 1694
		Method:	EPA 1694 (M) Caffeine
Project: EAA 27122			Page 11 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-376-11	**LCS**	**Aqueous**	**LC/TQ 2**	**03/19/15**	**03/23/15 15:13**	**150319L20**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Caffeine	100.0	106.4	106	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8081A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-792	**LCS**	**Aqueous**	**GC 44**	**03/19/15**	**03/20/15 12:16**	**150319L01**
099-12-529-792	**LCSD**	**Aqueous**	**GC 44**	**03/19/15**	**03/20/15 12:31**	**150319L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.5797	116	0.5728	115	50-135	36-149	1	0-25	
Gamma-BHC	0.5000	0.5939	119	0.5913	118	50-135	36-149	0	0-25	
Beta-BHC	0.5000	0.5539	111	0.5643	113	50-135	36-149	2	0-25	
Heptachlor	0.5000	0.5715	114	0.5307	106	50-135	36-149	7	0-25	
Delta-BHC	0.5000	0.5636	113	0.5327	107	50-135	36-149	6	0-25	
Aldrin	0.5000	0.5480	110	0.4992	100	50-135	36-149	9	0-25	
Heptachlor Epoxide	0.5000	0.5681	114	0.5506	110	50-135	36-149	3	0-25	
Endosulfan I	0.5000	0.5836	117	0.5593	112	50-135	36-149	4	0-25	
Dieldrin	0.5000	0.5837	117	0.5690	114	50-135	36-149	3	0-25	
4,4'-DDE	0.5000	0.5680	114	0.5658	113	50-135	36-149	0	0-25	
Endrin	0.5000	0.5576	112	0.5328	107	50-135	36-149	5	0-25	
Endrin Aldehyde	0.5000	0.6081	122	0.5490	110	50-135	36-149	10	0-25	
4,4'-DDD	0.5000	0.5604	112	0.5329	107	50-135	36-149	5	0-25	
Endosulfan II	0.5000	0.5716	114	0.5623	112	50-135	36-149	2	0-25	
4,4'-DDT	0.5000	0.5418	108	0.5378	108	50-135	36-149	1	0-25	
Endosulfan Sulfate	0.5000	0.5492	110	0.5394	108	50-135	36-149	2	0-25	
Methoxychlor	0.5000	0.5491	110	0.5496	110	50-135	36-149	0	0-25	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8082

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1015	**LCS**	**Aqueous**	**GC 58**	**03/19/15**	**03/20/15 18:27**	**150319L02**
099-12-533-1015	**LCSD**	**Aqueous**	**GC 58**	**03/19/15**	**03/20/15 18:45**	**150319L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	1.924	96	1.971	99	50-135	2	0-25	
Aroclor-1260	2.000	1.880	94	1.989	99	50-135	6	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8141A

Project: EAA 27122

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-963-90	**LCS**	**Aqueous**	**GC 35**	**03/19/15**	**03/20/15 11:29**	**150319L03**
099-15-963-90	**LCSD**	**Aqueous**	**GC 35**	**03/19/15**	**03/20/15 12:15**	**150319L03**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	0.04000	0.04451	111	0.04563	114	30-130	13-147	2	0-30	
Bolstar	0.04000	0.04440	111	0.04192	105	30-130	13-147	6	0-30	
Chlorpyrifos	0.04000	0.04042	101	0.04003	100	30-130	13-147	1	0-30	
Coumaphos	0.04000	0.04421	111	0.04463	112	30-130	13-147	1	0-30	
Diazinon	0.04000	0.04504	113	0.04489	112	30-130	13-147	0	0-30	
Disulfoton	0.04000	0.04279	107	0.04050	101	30-130	13-147	5	0-30	
Ethoprop	0.04000	0.04074	102	0.03955	99	30-130	13-147	3	0-30	
Fensulfothion	0.04000	0.04534	113	0.04549	114	30-130	13-147	0	0-30	
Fenthion	0.04000	0.04212	105	0.04209	105	30-130	13-147	0	0-30	
Merphos	0.04000	0.03744	94	0.03799	95	30-130	13-147	1	0-30	
Methyl Parathion	0.04000	0.04153	104	0.04150	104	30-130	13-147	0	0-30	
Phorate	0.04000	0.05059	126	0.04860	122	30-130	13-147	4	0-30	
Ronnel	0.04000	0.03901	98	0.03838	96	30-130	13-147	2	0-30	
Stirophos	0.04000	0.02787	70	0.02752	69	30-130	13-147	1	0-30	
Tokuthion	0.04000	0.04108	103	0.04055	101	30-130	13-147	1	0-30	
Trichloronate	0.04000	0.04114	103	0.04071	102	30-130	13-147	1	0-30	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 8151A
Method: EPA 8151A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-034-639	**LCS**	**Aqueous**	**GC 40**	**03/23/15**	**03/24/15 15:34**	**150323L02**
095-01-034-639	**LCSD**	**Aqueous**	**GC 40**	**03/23/15**	**03/24/15 15:57**	**150323L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	20.00	18.92	95	22.02	110	30-130	15	0-30	
2,4,5-T	2.000	2.065	103	2.435	122	30-130	16	0-30	
2,4-DB	20.00	19.48	97	22.44	112	30-130	14	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/17/15
Work Order: 15-03-1281
Preparation: EPA 3510C
Method: EPA 8270C

Project: EAA 27122

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-4010	**LCS**	**Aqueous**	**GC/MS TT**	**03/18/15**	**03/19/15 16:57**	**150318L08**
095-01-003-4010	**LCSD**	**Aqueous**	**GC/MS TT**	**03/18/15**	**03/19/15 17:16**	**150318L08**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	200.0	217.1	109	214.1	107	61-120	51-130	1	0-20	
Acenaphthylene	200.0	208.2	104	206.6	103	55-120	44-131	1	0-20	
Butyl Benzyl Phthalate	200.0	213.4	107	207.1	104	56-122	45-133	3	0-20	
4-Chloro-3-Methylphenol	200.0	185.4	93	180.2	90	52-120	41-131	3	0-20	
2-Chlorophenol	200.0	181.9	91	178.7	89	47-120	35-132	2	0-20	
1,4-Dichlorobenzene	200.0	170.3	85	166.3	83	36-120	22-134	2	0-20	
Dimethyl Phthalate	200.0	208.7	104	206.1	103	60-120	50-130	1	0-20	
2,4-Dinitrotoluene	200.0	206.1	103	206.3	103	61-121	51-131	0	0-20	
Fluorene	200.0	218.0	109	214.5	107	67-120	58-129	2	0-20	
N-Nitroso-di-n-propylamine	200.0	189.5	95	187.8	94	39-123	25-137	1	0-20	
Naphthalene	200.0	183.5	92	176.9	88	54-120	43-131	4	0-20	
4-Nitrophenol	200.0	170.6	85	173.5	87	14-120	0-138	2	0-20	
Pentachlorophenol	200.0	172.5	86	173.4	87	31-127	15-143	1	0-20	
Phenol	200.0	134.4	67	134.5	67	17-120	0-137	0	0-20	
Pyrene	200.0	194.1	97	187.5	94	58-124	47-135	3	0-20	
1,2,4-Trichlorobenzene	200.0	174.0	87	168.3	84	49-120	37-132	3	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	03/17/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-1281
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 17 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-16646	**LCS**	**Aqueous**	**GC/MS BB**	**03/20/15**	**03/21/15 01:22**	**150320L025**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	46.43	93	80-120	73-127	
Carbon Tetrachloride	50.00	44.63	89	67-139	55-151	
Chlorobenzene	50.00	50.78	102	78-120	71-127	
1,2-Dibromoethane	50.00	50.82	102	80-120	73-127	
1,2-Dichlorobenzene	50.00	50.17	100	63-129	52-140	
1,2-Dichloroethane	50.00	50.79	102	70-130	60-140	
1,1-Dichloroethene	50.00	46.81	94	66-126	56-136	
Ethylbenzene	50.00	49.15	98	80-123	73-130	
Toluene	50.00	46.65	93	80-120	73-127	
Trichloroethene	50.00	48.43	97	80-122	73-129	
Vinyl Chloride	50.00	42.24	84	70-130	60-140	
p/m-Xylene	100.0	101.3	101	75-123	67-131	
o-Xylene	50.00	51.39	103	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	47.13	94	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-03-1281 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 1694 (M) Caffeine	EPA 1694	262	LC/TQ 2	1
EPA 300.0	N/A	650	IC 7	1
EPA 365.1	N/A	735	ACA 1	1
EPA 6010B	EPA 3005A Filt.	935	ICP 7300	1
EPA 6020	EPA 3005A Filt.	598	ICP/MS 03	1
EPA 7470A	EPA 7470A Filt.	915	Mercury 04	1
EPA 8081A	EPA 3510C	960	GC 44	1
EPA 8082	EPA 3510C	944	GC 58	1
EPA 8141A	EPA 3510C	949	GC 35	1
EPA 8151A	EPA 8151A	944	GC 40	1
EPA 8260B	EPA 5030C	959	GC/MS BB	2
EPA 8270C	EPA 3510C	923	GC/MS TT	1
SM 2320B	N/A	688	PH1/BUR03	1
SM 2540 C	N/A	689	SC 5	1
SM 2540 D	N/A	689	N/A	1
SM 4500 H+ B	N/A	688	PH 1	1
SM 4500 N Org B	N/A	685	BUR05	1
SM 5310 B	N/A	735	TOC 8	1

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Glossary of Terms and Qualifiers

Work Order: 15-03-1281 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **15-03-1281**

DATE: 3/16/15

PAGE: 1 OF 1

LABORATORY CLIENT: SWCA Environmental Consultants

ADDRESS: 6200 UTSA Blvd. Suite 102

CITY: San Antonio STATE: TX ZIP: 78249-1618

TEL: 210.877.2847 E-MAIL: PPearce@swca.com

CLIENT PROJECT NAME / NUMBER: EAA 27122

P.O. NO.:

PROJECT CONTACT: Philip Pearce

SAMPLER(S): (PRINT) Jennifer Moreland Brittany Rios

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 10 Days (standard)

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
Samples for EPA 6010B, EPA 6020, and EPA 7470 Metals are field filtered

EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn
Please also analyze pH for ea sample

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 6010B (Si, Ca, Mg, K, Na, Sr)	EPA 6020 (See Comments)	EPA 7470A Mercury	EPA 1694 (M) Caffeine	EPA 8081A Organochlorine Pesticides	EPA 8082 PCB Aroclors	EPA 8141A Organophosphorus Pest	EPA 8151A Chlorinated Herbicides	EPA 8270C Semi-Volatile Organics	EPA 8260B Volatile Organics	EPA 300 Anions (F, Cl, Br, NO3, SO4)	EPA 365.1 Total Phosphorus	SM 2320B Alkalinity: Total, Bicarb, Carb	SM 5310B TOC	SM 5310B DOC	SM 5310B Solids, Total Dissolved	SM 4500 N Org B TKN	EPA 160.2 TSS
1	HCS 110	3/16/2015	12:44	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	HCS 120	3/16/2015	13:20	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	HCS 130	3/16/2015	11:29	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	HCS 140	3/16/2015	13:52	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	HCS 160	3/16/2015	14:13	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	FDHCS 120	3/16/2015	13:20	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	TB02	3/16/2015	NA	NPW	9	2	7	1										X								

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 03/16/2015	Time: 18:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 3/17/15	Time: 1000

06/02/14 Revision

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ORIGIN ID:SATA (210) 877-2847
SWCA INC
6200 UTSA BLVD STE 102
SAN ANTONIO, TX 782491618
UNITED STATES US

SHIP DATE: 16MAR15
ACTWGT: 62.0 LB
CAD: /OFFC1522
DIMS: 24x14x13 IN
BILL SENDER

TO
CALSCIENCE ENVIRONMENTAL LAB
7440 LINCOLN WAY
GARDEN GROVE CA 92841
(714) 895-5494 REF:
INV:
PO: DEPT:

FedEx Express

1 of 6
TRK# 0215 8062 7398 5690
MASTER
TUE - 17 MAR 3:00P
STANDARD OVERNIGHT
A7 APVA
92841
CA-US SNA

FedEx Express

3 of 6
MPS# 0681 7803 5520 1140
Mstr# 8062 7398 5690
0215
TUE - 17 MAR 3:00P
STANDARD OVERNIGHT
A7 APVA
92841
CA-US SNA

FedEx Express

5 of 6
MPS# 0681 7803 5520 1161
Mstr# 8062 7398 5690
0215
TUE - 17 MAR 3:00P
STANDARD OVERNIGHT
A7 APVA
92841
CA-US SNA

ORIGIN ID:SATA (210) 877-2847
SWCA INC
6200 UTSA BLVD STE 102
SAN ANTONIO, TX 782491618
UNITED STATES US

SHIP DATE: 16MAR15
ACTWGT: 62.0 LB
CAD: /OFFC1522
DIMS: 24x14x13 IN
BILL SENDER

TO
CALSCIENCE ENVIRONMENTAL LAB
7440 LINCOLN WAY
GARDEN GROVE CA 92841
1281
(714) 895-5494 REF:
INV:
PO: DEPT:

FedEx Express

2 of 6
MPS# 0681 7803 5520 1130
TUE - 17 MAR 3:00
STANDARD OVERNIGHT

ORIGIN ID:SATA (210) 877-2847
SWCA INC
6200 UTSA BLVD STE 102
SAN ANTONIO, TX 782491618
UNITED STATES US

SHIP DATE: 16MAR15
ACTWGT: 60.0 LB
CAD: /OFFC1522
DIMS: 24x14x13 IN
BILL SENDER

TO
CALSCIENCE ENVIRONMENTAL LAB
7440 LINCOLN WAY
GARDEN GROVE CA 92841
(714) 895-5494 REF:
INV:
PO: DEPT:

FedEx Express

4 of 6
MPS# 0681 7803 5520 1150
Mstr# 8062 7398 5690
0215
TUE - 17 MAR 3:00P
STANDARD OVERNIGHT
A7 APVA
92841
CA-US SNA

6 of 6
MPS# 0681 7803 5520 1172
Mstr# 8062 7398 5690
0215
TUE - 17 MAR 3:0
STANDARD OVERNIG
A7 APVA
CA-US

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WORK ORDER NUMBER: 15-03-1281

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 6

CLIENT: SWCA

DATE: 03 / 17 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4 (CF: +0.2°C) Temperature (w/o CF): 2.6 °C (w/ CF): 2.8 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Not Present ☐ Not Intact ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☑ Not Present ☐ Not Intact ☐ N/A Checked by: SB6

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date/time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐ 3/17/15
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (3)

(Trip Blank Lot Number: 15115A)

Aqueous: ☐VOA ☑VOAh ☐VOAna_2 ☐100PJ ☐100PJna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐125PB ☐125PB**znna** ☐250AGB ☐250CGB ☑250CGBs (2) ☐250PB ☑250PBnf ☐500AGB ☐500AGJ ☐500AGJs ☐500PB ☑1AGB ☐1AGBna_2 ☑1AGBs ☐1PB ☐1PBna ☑2.5 GAL ☐ _____ ☐ _____

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐ _____

Air: ☐Tedlar™ ☐Canister ☐Sorbent Tube ☐ PUF **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A**=Amber, **B**=Bottle, **C**=Clear, **E**=Envelope, **G**=Glass, **J**=Jar, **P**=Plastic, and **Z**= Ziploc/Resealable Bag

Preservative: **f**=filtered, **h**=HCl, **n**=HNO_3, **na**=NaOH, **na_2**=$Na_2S_2O_3$, **p**=H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: SB6

Reviewed by: JG

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WORK ORDER NUMBER: 15-03- 1281

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 6

CLIENT: SWCA

DATE: 03 / 17 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4 (CF: +0.2°C) Temperature (w/o CF): 1.9 °C (w/ CF): 2.1 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: IS

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Not Present ☐ Not Intact ☐ N/A Checked by: IS

Sample(s) ☐ Present and Intact ☑ Not Present ☐ Not Intact ☐ N/A Checked by: 836

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date/time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☑ 836 3/17/15
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐VOA ☑VOAh ☐VOAna_2 ☐100PJ ☐100PJna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐125PB ☐125PBznna ☐250AGB ☐250CGB ☑250CGBs ☐250PB ☑250PBn ☐500AGB ☐500AGJ ☐500AGJs ☐500PB ☑1AGB ☐1AGBna_2 ☑1AGBs ☐1PB ☐1PBna ☑ 2.5 GAL ☐ _____ ☐ _____

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐ _____

Air: ☐Tedlar™ ☐Canister ☐Sorbent Tube ☐ PUF **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A**=Amber, **B**=Bottle, **C**=Clear, **E**=Envelope, **G**=Glass, **J**=Jar, **P**=Plastic, and **Z**= Ziploc/Resealable Bag

Preservative: **f**=filtered, **h**=HCl, **n**=HNO_3, **na**=NaOH, **na_2**=$Na_2S_2O_3$, **p**=H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 836

Reviewed by: 960

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eurofins | Calscience

WORK ORDER NUMBER: 15-03-1281

SAMPLE RECEIPT CHECKLIST

COOLER 3 OF 6

CLIENT: SWCA

DATE: 03 / 17 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4 (CF: +0.2°C) Temperature (w/o CF): 3.1 °C (w/ CF): 3.3 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: IS

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Not Present ☐ Not Intact ☐ N/A Checked by: IS

Sample(s) ☐ Present and Intact ☑ Not Present ☐ Not Intact ☐ N/A Checked by: SW

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date/time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☑ SW 3/19/15
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐VOA ☑VOAh ☐VOA**na$_2$** ☐100PJ ☐100PJ**na$_2$** ☐125AGB ☐125AGBh ☐125AGBp ☐125PB ☐125PB**znna** ☐250AGB ☐250CGB ☑250CGB**s** ☐250PB ☑250PB**n** ☐500AGB ☐500AGJ ☐500AGJs ☐500PB ☑1AGB ☐1AGB**na$_2$** ☑1AGB**s** ☐1PB ☐1PB**na** ☑2.5 Gal. ☐ _____ ☐ _____

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐ _____

Air: ☐Tedlar™ ☐Canister ☐Sorbent Tube ☐ PUF **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A**=Amber, **B**=Bottle, **C**=Clear, **E**=Envelope, **G**=Glass, **J**=Jar, **P**=Plastic, and **Z**= Ziploc/Resealable Bag

Preservative: **f**=filtered, **h**=HCl, **n**=HNO_3, **na**=NaOH, **na$_2$**=$Na_2S_2O_3$, **p**=H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: SW

Reviewed by: JLG

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WORK ORDER NUMBER: 15-03-1281

SAMPLE RECEIPT CHECKLIST

COOLER 4 OF 6

CLIENT: SWCA

DATE: 03 / 17 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4 (CF: +0.2°C) Temperature (w/o CF): 2.7 °C (w/ CF): 2.9 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: IS

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Not Present ☐ Not Intact ☐ N/A Checked by: IS

Sample(s) ☐ Present and Intact ☑ Not Present ☐ Not Intact ☐ N/A Checked by: 836

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date/time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☑ 836 3/17/15
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐VOA ☑VOAh ☐VOAna$_2$ ☐100PJ ☐100PJna$_2$ ☐125AGB ☐125AGBh ☐125AGBp ☐125PB ☐125PBznna ☐250AGB ☐250CGB ☑250CGBs ☐250PB ☑250PBn ☐500AGB ☐500AGJ ☐500AGJs ☐500PB ☑1AGB ☐1AGBna$_2$ ☑1AGBs ☐1PB ☐1PBna ☑2.5 GAL ☐ _____ ☐ _____

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐ _____

Air: ☐Tedlar™ ☐Canister ☐Sorbent Tube ☐ PUF **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A**=Amber, **B**=Bottle, **C**=Clear, **E**=Envelope, **G**=Glass, **J**=Jar, **P**=Plastic, and **Z**= Ziploc/Resealable Bag

Preservative: **f**=filtered, **h**=HCl, **n**=HNO_3, **na**=NaOH, **na$_2$**=$Na_2S_2O_3$, **p**=H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 836

Reviewed by: 3W0

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WORK ORDER NUMBER: 15-03-1289

SAMPLE RECEIPT CHECKLIST

COOLER 5 OF 6

CLIENT: SWCA

DATE: 03 / 17 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4 (CF: +0.2°C) Temperature (w/o CF): 2.8 °C (w/ CF): 3.0 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Not Present ☐ Not Intact ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☑ Not Present ☐ Not Intact ☐ N/A Checked by: 836

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date/time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☑ 836 3/17/15
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐VOA ☑VOAh ☐VOAna_2 ☐100PJ ☐100PJna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐125PB

☐125PBznna ☐250AGB ☐250CGB ☑250CGBs ☐250PB ☑250PBn 5 ☐500AGB ☐500AGJ ☐500AGJs

☐500PB ☑1AGB ☐1AGBna_2 ☑1AGBs ☐1PB ☐1PBna ☑2.5 GAL ☐ _____ ☐ _____

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐ _____

Air: ☐Tedlar™ ☐Canister ☐Sorbent Tube ☐ PUF **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A**=Amber, **B**=Bottle, **C**=Clear, **E**=Envelope, **G**=Glass, **J**=Jar, **P**=Plastic, and **Z**= Ziploc/Resealable Bag

Preservative: **f**=filtered, **h**=HCl, **n**=HNO_3, **na**=NaOH, **na_2**=$Na_2S_2O_3$, **p**=H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 836

Reviewed by: MBD

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WORK ORDER NUMBER: 15-03-1291

SAMPLE RECEIPT CHECKLIST

COOLER 6 OF 6

CLIENT: SWCA

DATE: 03 / 17 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4 (CF: +0.2°C) Temperature (w/o CF): 2.4 °C (w/ CF): 2.6 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: IS

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Not Present ☐ Not Intact ☐ N/A Checked by: IS

Sample(s) ☐ Present and Intact ☑ Not Present ☐ Not Intact ☐ N/A Checked by: 836

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date/time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☑ 836 3/17/15
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐VOA ☑VOA**h** ☐VOA**na$_2$** ☐100PJ ☐100PJ**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐125PB ☐125PB**znna** ☐250AGB ☐250CGB ☑250CGB**s** ☐250PB ☑250PB**n** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐500PB ☑1AGB ☐1AGB**na$_2$** ☑1AGB**s** ☐1PB ☐1PB**na** ☑ 2.5 GAL ☐ _____ ☐ _____

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐ _____

Air: ☐Tedlar™ ☐Canister ☐Sorbent Tube ☐ PUF **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A**=Amber, **B**=Bottle, **C**=Clear, **E**=Envelope, **G**=Glass, **J**=Jar, **P**=Plastic, and **Z**= Ziploc/Resealable Bag

Preservative: **f**=filtered, **h**=HCl, **n**=HNO_3, **na**=NaOH, **na$_2$**=$Na_2S_2O_3$, **p**=H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 836

Reviewed by: MO

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WORK ORDER NUMBER: 15 -03 - 1281

SAMPLE ANOMALY REPORT

DATE: 03 / 17 / 2015

SAMPLES, CONTAINERS, AND LABELS:

- ☐ Sample(s) NOT RECEIVED but listed on COC
- ☐ Sample(s) received but NOT LISTED on COC
- ☐ Holding time expired (list client or ECI sample ID and analysis)
- ☐ Insufficient sample amount for requested analysis (list analysis)
- ☐ Improper container(s) used (list analysis)
- ☐ Improper preservative used (list analysis)
- ☐ No preservative noted on COC or label (list analysis and notify lab)
- ☐ Sample container(s) not labeled
- ☐ Client sample label(s) illegible (list container type and analysis)
- ☑ Client sample label(s) do not match COC (comment)
  - ☐ Project information
  - ☐ Client sample ID
  - ☐ Sampling date and/or time
  - ☑ Number of container(s)
  - ☐ Requested analysis
- ☐ Sample container(s) compromised (comment)
  - ☐ Broken
  - ☐ Water present in sample container
- ☐ Air sample container(s) compromised (comment)
  - ☐ Flat
  - ☐ Very low in volume
  - ☐ Leaking (not transferred; duplicate bag submitted)
  - ☐ Leaking (transferred into ECI Tedlar™ bags*)
  - ☐ Leaking (transferred into client's Tedlar™ bags*)

* Transferred at client's request.

Comments

(-7) Received only 1-vial. (TB).

MISCELLANEOUS: (Describe)

Comments

HEADSPACE:

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**

(Containers with bubble for other analysis)

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis

Comments: _____

Reported by: SM6

Reviewed by: MOO

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

March 30, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 110
Sample Number: AA93572
Sample Matrix: Non Potable Water

Collection Date/Time: 3/25/15 10:28
Receipt Date/Time: 3/25/15 14:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA93572-A	E. coli	√	SM 9223B-2004	<1	MPN/100 mL		1	42188	3/25/15	15:26	RSC
AA93572-A	E. Coli Holding Time - IDEXX Colilert		NA	4.97	hours		0.00	42186	3/25/15	15:26	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 3/30/2015 4:02:10PM as validated by JH

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42188

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

3/30/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

March 30, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 120
Sample Number: AA93573
Sample Matrix: Non Potable Water

Collection Date/Time: 3/25/15 10:51
Receipt Date/Time: 3/25/15 14:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA93573-A	E. coli	√	SM 9223B-2004	13	MPN/100 mL		1	42188	3/25/15	15:26	RSC
AA93573-A	E. Coli Holding Time - IDEXX Colilert		NA	4.58	hours		0.00	42186	3/25/15	15:26	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42188

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

3/30/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

March 30, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 130
Sample Number: AA93574
Sample Matrix: Non Potable Water

Collection Date/Time: 3/25/15 11:17
Receipt Date/Time: 3/25/15 14:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA93574-A	E. coli	√	SM 9223B-2004	12	MPN/100 mL		1	42188	3/25/15	15:26	RSC
AA93574-A	E. Coli Holding Time - IDEXX Colilert		NA	4.15	hours		0.00	42186	3/25/15	15:26	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 3/30/2015 4:02:10PM as validated by JH

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42188

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

3/30/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

March 30, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 140
Sample Number: AA93575
Sample Matrix: Non Potable Water

Collection Date/Time: 3/25/15 11:30
Receipt Date/Time: 3/25/15 14:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: slight air space.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA93575-A	E. coli	√	SM 9223B-2004	200	MPN/100 mL		1	42189	3/25/15	15:26	RSC
AA93575-A	E. Coli Holding Time - IDEXX Colilert		NA	3.93	hours		0.00	42187	3/25/15	15:26	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42189

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.1621			0.0	---	0.5

Jeanette Hernandez
Water Quality Planner / QAO

3/30/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 3/30/2015 4:02:10PM as validated by JH

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

March 30, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 150
Sample Number: AA93576
Sample Matrix: Non Potable Water

Collection Date/Time: 3/25/15 12:25
Receipt Date/Time: 3/25/15 14:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA93576-A	E. coli	√	SM 9223B-2004	66	MPN/100 mL		1	42189	3/25/15	15:26	RSC
AA93576-A	E. Coli Holding Time - IDEXX Colilert		NA	3.02	hours		0.00	42187	3/25/15	15:26	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42189

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

3/30/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

March 30, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 160
Sample Number: AA93577
Sample Matrix: Non Potable Water

Collection Date/Time: 3/25/15 12:50
Receipt Date/Time: 3/25/15 14:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA93577-A	E. coli	√	SM 9223B-2004	40	MPN/100 mL		1	42189	3/25/15	15:26	RSC
AA93577-A	E. Coli Holding Time - IDEXX Colilert		NA	2.60	hours		0.00	42187	3/25/15	15:26	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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600 E Euclid Avenue
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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42189

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

3/30/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

March 30, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 170
Sample Number: AA93578
Sample Matrix: Non Potable Water

Collection Date/Time: 3/25/15 13:18
Receipt Date/Time: 3/25/15 14:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA93578-A	E. coli	√	SM 9223B-2004	34	MPN/100 mL		1	42189	3/25/15	15:26	RSC
AA93578-A	E. Coli Holding Time - IDEXX Colilert		NA	2.13	hours		0.00	42187	3/25/15	15:26	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 3/30/2015 4:02:10PM as validated by JH

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42189

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

3/30/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

March 30, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: FD - HSM 110
Sample Number: AA93579
Sample Matrix: Non Potable Water

Collection Date/Time: 3/25/15 10:28
Receipt Date/Time: 3/25/15 14:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA93579-A	E. coli	√	SM 9223B-2004	9	MPN/100 mL		1	42189	3/25/15	15:26	RSC
AA93579-A	E. Coli Holding Time - IDEXX Colilert		NA	4.97	hours		0.00	42187	3/25/15	15:26	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42189

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

3/30/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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WORK ORDER NUMBER: 15-03-2020

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: SWCA Environmental Consultants

Client Project Name: EAA 27122

Attention: Philip Pearce
6200 UTSA Blvd.
Suite 102
San Antonio, TX 78249-1618

FOR

Approved for release on 04/14/2015 by:
Don Burley
Project Manager

ResultLink

Email your PM

ACCREDITED IN ACCORDANCE WITH nelac

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Contents

Client Project Name: EAA 27122
Work Order Number: 15-03-2020

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Work Order Narrative

Work Order: 15-03-2020 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/26/15. They were assigned to Work Order 15-03-2020.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	SWCA Environmental Consultants	Work Order:	15-03-2020
	6200 UTSA Blvd., Suite 102	Project Name:	EAA 27122
	San Antonio, TX 78249-1618	PO Number:	
		Date/Time Received:	03/26/15 10:40
		Number of Containers:	73
Attn:	Philip Pearce		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
HSM110	15-03-2020-1	03/25/15 10:28	9	Aqueous
HSM120	15-03-2020-2	03/25/15 10:51	9	Aqueous
HSM130	15-03-2020-3	03/25/15 11:17	9	Aqueous
HSM140	15-03-2020-4	03/25/15 11:30	9	Aqueous
HSM150	15-03-2020-5	03/25/15 12:25	9	Aqueous
HSM160	15-03-2020-6	03/25/15 12:50	9	Aqueous
HSM170	15-03-2020-7	03/25/15 13:18	9	Aqueous
FDHSM110	15-03-2020-8	03/25/15 10:28	9	Aqueous
TB04	15-03-2020-9	03/25/15 00:00	1	Aqueous

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-03-2020-1-F**	**03/25/15 10:28**	**Aqueous**	**ICP 7300**	**03/27/15**	**04/09/15 22:10**	**150327L4FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	93.9	0.100	0.0118	1.00	
Magnesium	18.0	0.100	0.00336	1.00	B
Potassium	1.31	0.500	0.103	1.00	
Sodium	12.7	0.500	0.103	1.00	
Strontium	0.568	0.0300	0.00277	1.00	
Silicon	3.63	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-03-2020-2-F**	**03/25/15 10:51**	**Aqueous**	**ICP 7300**	**03/27/15**	**04/09/15 22:16**	**150327L4FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	86.6	0.100	0.0118	1.00	
Magnesium	20.0	0.100	0.00336	1.00	B
Potassium	1.85	0.500	0.103	1.00	
Sodium	15.2	0.500	0.103	1.00	
Strontium	0.680	0.0300	0.00277	1.00	
Silicon	3.60	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-03-2020-3-F**	**03/25/15 11:17**	**Aqueous**	**ICP 7300**	**03/27/15**	**04/09/15 22:18**	**150327L4FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	91.5	0.100	0.0118	1.00	
Magnesium	13.6	0.100	0.00336	1.00	B
Potassium	1.55	0.500	0.103	1.00	
Sodium	14.6	0.500	0.103	1.00	
Strontium	0.511	0.0300	0.00277	1.00	
Silicon	3.15	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-03-2020-4-F**	**03/25/15 11:30**	**Aqueous**	**ICP 7300**	**03/27/15**	**04/09/15 22:20**	**150327L4FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	93.1	0.100	0.0118	1.00	
Magnesium	18.6	0.100	0.00336	1.00	B
Potassium	1.48	0.500	0.103	1.00	
Sodium	12.8	0.500	0.103	1.00	
Strontium	0.574	0.0300	0.00277	1.00	
Silicon	3.70	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-03-2020-5-F**	**03/25/15 12:25**	**Aqueous**	**ICP 7300**	**03/27/15**	**04/09/15 22:22**	**150327L4FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	93.5	0.100	0.0118	1.00	
Magnesium	18.2	0.100	0.00336	1.00	B
Potassium	1.29	0.500	0.103	1.00	
Sodium	12.7	0.500	0.103	1.00	
Strontium	0.577	0.0300	0.00277	1.00	
Silicon	3.60	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-03-2020-6-F**	**03/25/15 12:50**	**Aqueous**	**ICP 7300**	**03/27/15**	**04/09/15 22:24**	**150327L4FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	92.4	0.100	0.0118	1.00	
Magnesium	18.1	0.100	0.00336	1.00	B
Potassium	1.49	0.500	0.103	1.00	
Sodium	12.9	0.500	0.103	1.00	
Strontium	0.573	0.0300	0.00277	1.00	
Silicon	3.59	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-03-2020-7-F**	**03/25/15 13:18**	**Aqueous**	**ICP 7300**	**03/27/15**	**04/09/15 22:32**	**150327L4FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	91.6	0.100	0.0118	1.00	
Magnesium	18.0	0.100	0.00336	1.00	B
Potassium	1.43	0.500	0.103	1.00	
Sodium	13.3	0.500	0.103	1.00	
Strontium	0.571	0.0300	0.00277	1.00	
Silicon	3.62	0.0500	0.0279	1.00	

FDHSM110	**15-03-2020-8-F**	**03/25/15 10:28**	**Aqueous**	**ICP 7300**	**03/27/15**	**04/09/15 22:34**	**150327L4FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	87.4	0.100	0.0118	1.00	
Magnesium	20.1	0.100	0.00336	1.00	B
Potassium	1.75	0.500	0.103	1.00	
Sodium	15.3	0.500	0.103	1.00	
Strontium	0.688	0.0300	0.00277	1.00	
Silicon	3.59	0.0500	0.0279	1.00	

Method Blank	**099-15-683-1214**	**N/A**	**Aqueous**	**ICP 7300**	**03/27/15**	**04/09/15 22:07**	**150327L4FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	ND	0.100	0.0118	1.00	
Magnesium	0.0449	0.100	0.00336	1.00	J
Potassium	ND	0.500	0.103	1.00	
Sodium	ND	0.500	0.103	1.00	
Strontium	ND	0.0300	0.00277	1.00	
Silicon	ND	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-03-2020-1-F**	**03/25/15 10:28**	**Aqueous**	**ICP/MS 03**	**03/27/15**	**03/28/15 05:36**	**150327LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0409	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000788	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00193	0.00100	0.000132	1.00	
Selenium	0.000310	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00287	0.00500	0.000479	1.00	J
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0411	0.0500	0.00926	1.00	J
Manganese	0.0222	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-03-2020-2-F**	**03/25/15 10:51**	**Aqueous**	**ICP/MS 03**	**03/27/15**	**03/28/15 05:40**	**150327LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0382	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000682	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00185	0.00100	0.000132	1.00	
Selenium	0.000351	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	ND	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0344	0.0500	0.00926	1.00	J
Manganese	0.000220	0.00100	0.000139	1.00	J

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-03-2020-3-F**	**03/25/15 11:17**	**Aqueous**	**ICP/MS 03**	**03/27/15**	**03/28/15 05:43**	**150327LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0418	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000662	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00194	0.00100	0.000132	1.00	
Selenium	0.000422	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00447	0.00500	0.000479	1.00	J
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0295	0.0500	0.00926	1.00	J
Manganese	0.00148	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-03-2020-4-F**	**03/25/15 11:30**	**Aqueous**	**ICP/MS 03**	**03/27/15**	**03/28/15 05:47**	**150327LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0392	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000951	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00208	0.00100	0.000132	1.00	
Selenium	0.000314	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.000711	0.00500	0.000479	1.00	J
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0338	0.0500	0.00926	1.00	J
Manganese	0.000545	0.00100	0.000139	1.00	J

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-03-2020-5-F**	**03/25/15 12:25**	**Aqueous**	**ICP/MS 03**	**03/27/15**	**03/28/15 05:50**	**150327LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0388	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000728	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00189	0.00100	0.000132	1.00	
Selenium	0.000282	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00135	0.00500	0.000479	1.00	J
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0288	0.0500	0.00926	1.00	J
Manganese	0.000616	0.00100	0.000139	1.00	J

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-03-2020-6-F**	**03/25/15 12:50**	**Aqueous**	**ICP/MS 03**	**03/27/15**	**03/28/15 05:54**	**150327LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0379	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000978	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00207	0.00100	0.000132	1.00	
Selenium	0.000314	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00520	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0342	0.0500	0.00926	1.00	J
Manganese	0.00128	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-03-2020-7-F**	**03/25/15 13:18**	**Aqueous**	**ICP/MS 03**	**03/27/15**	**03/28/15 05:58**	**150327LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0398	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000824	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00180	0.00100	0.000132	1.00	
Selenium	0.000334	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	ND	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0348	0.0500	0.00926	1.00	J
Manganese	0.00167	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM110	**15-03-2020-8-F**	**03/25/15 10:28**	**Aqueous**	**ICP/MS 03**	**03/27/15**	**03/28/15 06:01**	**150327LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0429	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000673	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00203	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	ND	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0485	0.0500	0.00926	1.00	J
Manganese	0.0220	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-693-771**	**N/A**	**Aqueous**	**ICP/MS 03**	**03/27/15**	**03/28/15 04:39**	**150327LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	ND	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	ND	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	ND	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	ND	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	ND	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-03-2020-1-F**	**03/25/15 10:28**	**Aqueous**	**Mercury 04**	**04/01/15**	**04/01/15 17:16**	**150401L04F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-03-2020-2-F**	**03/25/15 10:51**	**Aqueous**	**Mercury 04**	**04/01/15**	**04/01/15 17:19**	**150401L04F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-03-2020-3-F**	**03/25/15 11:17**	**Aqueous**	**Mercury 04**	**04/01/15**	**04/01/15 17:21**	**150401L04F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-03-2020-4-F**	**03/25/15 11:30**	**Aqueous**	**Mercury 04**	**04/01/15**	**04/01/15 17:23**	**150401L04F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-03-2020-5-F**	**03/25/15 12:25**	**Aqueous**	**Mercury 04**	**04/01/15**	**04/01/15 17:30**	**150401L04F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-03-2020-6-F**	**03/25/15 12:50**	**Aqueous**	**Mercury 04**	**04/01/15**	**04/01/15 17:32**	**150401L04F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-03-2020-7-F**	**03/25/15 13:18**	**Aqueous**	**Mercury 04**	**04/01/15**	**04/01/15 17:34**	**150401L04F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM110	**15-03-2020-8-F**	**03/25/15 10:28**	**Aqueous**	**Mercury 04**	**04/01/15**	**04/01/15 17:37**	**150401L04F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-763-527**	**N/A**	**Aqueous**	**Mercury 04**	**04/01/15**	**04/01/15 16:36**	**150401L04F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
Units: ng/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-03-2020-1-I**	**03/25/15 10:28**	**Aqueous**	**LC/TQ 2**	**03/28/15**	**03/30/15 10:15**	**150328L13**

Parameter	Result	RL	DF	Qualifiers
Caffeine	16	9.8	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	42	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-03-2020-2-I**	**03/25/15 10:51**	**Aqueous**	**LC/TQ 2**	**03/28/15**	**03/30/15 10:23**	**150328L13**

Parameter	Result	RL	DF	Qualifiers
Caffeine	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	41	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-03-2020-3-I**	**03/25/15 11:17**	**Aqueous**	**LC/TQ 2**	**03/28/15**	**03/30/15 10:32**	**150328L13**

Parameter	Result	RL	DF	Qualifiers
Caffeine	ND	9.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	44	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-03-2020-4-I**	**03/25/15 11:30**	**Aqueous**	**LC/TQ 2**	**03/28/15**	**03/30/15 10:40**	**150328L13**

Parameter	Result	RL	DF	Qualifiers
Caffeine	ND	9.8	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	47	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-03-2020-5-I**	**03/25/15 12:25**	**Aqueous**	**LC/TQ 2**	**03/28/15**	**03/30/15 10:48**	**150328L13**

Parameter	Result	RL	DF	Qualifiers
Caffeine	14	9.7	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	45	31-200	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
Units: ng/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-03-2020-6-I**	**03/25/15 12:50**	**Aqueous**	**LC/TQ 2**	**03/28/15**	**03/30/15 10:57**	**150328L13**

Parameter	Result	RL	DF	Qualifiers
Caffeine	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	42	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-03-2020-7-I**	**03/25/15 13:18**	**Aqueous**	**LC/TQ 2**	**03/28/15**	**03/30/15 11:05**	**150328L13**

Parameter	Result	RL	DF	Qualifiers
Caffeine	ND	9.8	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	47	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM110	**15-03-2020-8-I**	**03/25/15 10:28**	**Aqueous**	**LC/TQ 2**	**03/28/15**	**03/30/15 11:13**	**150328L13**

Parameter	Result	RL	DF	Qualifiers
Caffeine	10	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	43	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-376-12**	**N/A**	**Aqueous**	**LC/TQ 2**	**03/28/15**	**03/30/15 10:07**	**150328L13**

Parameter	Result	RL	DF	Qualifiers
Caffeine	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	47	31-200	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-03-2020-1-I**	**03/25/15 10:28**	**Aqueous**	**GC 44**	**03/27/15**	**03/30/15 20:23**	**150327L02A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	50-135	
2,4,5,6-Tetrachloro-m-Xylene	110	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-03-2020-2-I**	**03/25/15 10:51**	**Aqueous**	**GC 44**	**03/27/15**	**03/30/15 20:38**	**150327L02A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	109	50-135	
2,4,5,6-Tetrachloro-m-Xylene	118	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-03-2020-3-I**	**03/25/15 11:17**	**Aqueous**	**GC 44**	**03/27/15**	**03/31/15 12:51**	**150327L02A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	111	50-135	
2,4,5,6-Tetrachloro-m-Xylene	115	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-03-2020-4-I**	**03/25/15 11:30**	**Aqueous**	**GC 44**	**03/27/15**	**03/31/15 13:05**	**150327L02A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	50-135	
2,4,5,6-Tetrachloro-m-Xylene	98	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-03-2020-5-I**	**03/25/15 12:25**	**Aqueous**	**GC 44**	**03/27/15**	**03/31/15 15:21**	**150327L02A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	50-135	
2,4,5,6-Tetrachloro-m-Xylene	103	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-03-2020-6-I**	**03/25/15 12:50**	**Aqueous**	**GC 44**	**03/27/15**	**03/31/15 15:36**	**150327L02A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	103	50-135	
2,4,5,6-Tetrachloro-m-Xylene	109	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-03-2020-7-I**	**03/25/15 13:18**	**Aqueous**	**GC 44**	**03/27/15**	**03/31/15 18:07**	**150327L02A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	50-135	
2,4,5,6-Tetrachloro-m-Xylene	98	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM110	**15-03-2020-8-I**	**03/25/15 10:28**	**Aqueous**	**GC 44**	**03/27/15**	**03/31/15 18:21**	**150327L02A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	50-135	
2,4,5,6-Tetrachloro-m-Xylene	108	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-529-796**	**N/A**	**Aqueous**	**GC 44**	**03/27/15**	**03/30/15 13:14**	**150327L02A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	50-135	
2,4,5,6-Tetrachloro-m-Xylene	101	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-03-2020-1-I**	**03/25/15 10:28**	**Aqueous**	**GC 31**	**03/27/15**	**03/30/15 14:29**	**150327L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	50-135	
2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-03-2020-2-I**	**03/25/15 10:51**	**Aqueous**	**GC 31**	**03/27/15**	**03/30/15 14:48**	**150327L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	106	50-135	
2,4,5,6-Tetrachloro-m-Xylene	90	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-03-2020-3-I**	**03/25/15 11:17**	**Aqueous**	**GC 31**	**03/27/15**	**03/30/15 15:07**	**150327L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	50-135	
2,4,5,6-Tetrachloro-m-Xylene	87	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-03-2020-4-I**	**03/25/15 11:30**	**Aqueous**	**GC 31**	**03/27/15**	**03/30/15 15:26**	**150327L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	87	50-135	
2,4,5,6-Tetrachloro-m-Xylene	77	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-03-2020-5-I**	**03/25/15 12:25**	**Aqueous**	**GC 31**	**03/27/15**	**03/30/15 15:45**	**150327L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	50-135	
2,4,5,6-Tetrachloro-m-Xylene	85	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-03-2020-6-I**	**03/25/15 12:50**	**Aqueous**	**GC 31**	**03/27/15**	**03/30/15 16:05**	**150327L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	50-135	
2,4,5,6-Tetrachloro-m-Xylene	90	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-03-2020-7-I**	**03/25/15 13:18**	**Aqueous**	**GC 31**	**03/27/15**	**03/30/15 16:34**	**150327L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	50-135	
2,4,5,6-Tetrachloro-m-Xylene	85	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM110	**15-03-2020-8-I**	**03/25/15 10:28**	**Aqueous**	**GC 31**	**03/27/15**	**03/30/15 16:53**	**150327L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	50-135	
2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-533-1019**	**N/A**	**Aqueous**	**GC 31**	**03/27/15**	**03/30/15 13:13**	**150327L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	50-135	
2,4,5,6-Tetrachloro-m-Xylene	80	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-03-2020-1-I**	**03/25/15 10:28**	**Aqueous**	**GC 35**	**03/27/15**	**03/31/15 15:21**	**150327L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	102	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-03-2020-2-I**	**03/25/15 10:51**	**Aqueous**	**GC 35**	**03/27/15**	**03/31/15 16:07**	**150327L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0049	0.0028	1.00	
Bolstar	ND	0.0049	0.0028	1.00	
Chlorpyrifos	ND	0.0049	0.0023	1.00	
Coumaphos	ND	0.0049	0.0024	1.00	
Diazinon	ND	0.0049	0.0028	1.00	
Dichlorvos	ND	0.0049	0.0036	1.00	
Disulfoton	ND	0.0098	0.0025	1.00	
Ethoprop	ND	0.0049	0.0025	1.00	
Fensulfothion	ND	0.0049	0.0028	1.00	
Fenthion	ND	0.0049	0.0026	1.00	
Merphos	ND	0.0049	0.0026	1.00	
Methyl Parathion	ND	0.0049	0.0029	1.00	
Mevinphos	ND	0.0049	0.0027	1.00	
Naled	ND	0.039	0.019	1.00	
Phorate	ND	0.0049	0.0025	1.00	
Ronnel	ND	0.0049	0.0032	1.00	
Stirophos	ND	0.020	0.0086	1.00	
Tokuthion	ND	0.0049	0.0028	1.00	
Trichloronate	ND	0.0049	0.0021	1.00	
Demeton-o/s	ND	0.0049	0.0027	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	92	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-03-2020-3-I**	**03/25/15 11:17**	**Aqueous**	**GC 35**	**03/27/15**	**03/31/15 16:53**	**150327L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0048	0.0027	1.00	
Bolstar	ND	0.0048	0.0027	1.00	
Chlorpyrifos	ND	0.0048	0.0023	1.00	
Coumaphos	ND	0.0048	0.0023	1.00	
Diazinon	ND	0.0048	0.0028	1.00	
Dichlorvos	ND	0.0048	0.0035	1.00	
Disulfoton	ND	0.0096	0.0025	1.00	
Ethoprop	ND	0.0048	0.0024	1.00	
Fensulfothion	ND	0.0048	0.0027	1.00	
Fenthion	ND	0.0048	0.0025	1.00	
Merphos	ND	0.0048	0.0025	1.00	
Methyl Parathion	ND	0.0048	0.0029	1.00	
Mevinphos	ND	0.0048	0.0026	1.00	
Naled	ND	0.038	0.019	1.00	
Phorate	ND	0.0048	0.0024	1.00	
Ronnel	ND	0.0048	0.0031	1.00	
Stirophos	ND	0.019	0.0085	1.00	
Tokuthion	ND	0.0048	0.0027	1.00	
Trichloronate	ND	0.0048	0.0020	1.00	
Demeton-o/s	ND	0.0048	0.0027	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	92	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-03-2020-4-I**	**03/25/15 11:30**	**Aqueous**	**GC 35**	**03/27/15**	**03/31/15 17:40**	**150327L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0028	1.00	
Bolstar	ND	0.0050	0.0028	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.0099	0.0025	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0028	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0029	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0087	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	94	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-03-2020-5-I**	**03/25/15 12:25**	**Aqueous**	**GC 35**	**03/27/15**	**03/31/15 18:26**	**150327L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	86	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-03-2020-6-I**	**03/25/15 12:50**	**Aqueous**	**GC 35**	**03/27/15**	**03/31/15 19:12**	**150327L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0048	0.0027	1.00	
Bolstar	ND	0.0048	0.0027	1.00	
Chlorpyrifos	ND	0.0048	0.0023	1.00	
Coumaphos	ND	0.0048	0.0023	1.00	
Diazinon	ND	0.0048	0.0027	1.00	
Dichlorvos	ND	0.0048	0.0035	1.00	
Disulfoton	ND	0.0095	0.0024	1.00	
Ethoprop	ND	0.0048	0.0024	1.00	
Fensulfothion	ND	0.0048	0.0027	1.00	
Fenthion	ND	0.0048	0.0025	1.00	
Merphos	ND	0.0048	0.0025	1.00	
Methyl Parathion	ND	0.0048	0.0028	1.00	
Mevinphos	ND	0.0048	0.0026	1.00	
Naled	ND	0.038	0.018	1.00	
Phorate	ND	0.0048	0.0024	1.00	
Ronnel	ND	0.0048	0.0031	1.00	
Stirophos	ND	0.019	0.0084	1.00	
Tokuthion	ND	0.0048	0.0027	1.00	
Trichloronate	ND	0.0048	0.0020	1.00	
Demeton-o/s	ND	0.0048	0.0027	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	92	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-03-2020-7-I**	**03/25/15 13:18**	**Aqueous**	**GC 35**	**03/27/15**	**03/31/15 19:58**	**150327L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0049	0.0028	1.00	
Bolstar	ND	0.0049	0.0028	1.00	
Chlorpyrifos	ND	0.0049	0.0023	1.00	
Coumaphos	ND	0.0049	0.0024	1.00	
Diazinon	ND	0.0049	0.0028	1.00	
Dichlorvos	ND	0.0049	0.0036	1.00	
Disulfoton	ND	0.0098	0.0025	1.00	
Ethoprop	ND	0.0049	0.0025	1.00	
Fensulfothion	ND	0.0049	0.0028	1.00	
Fenthion	ND	0.0049	0.0026	1.00	
Merphos	ND	0.0049	0.0026	1.00	
Methyl Parathion	ND	0.0049	0.0029	1.00	
Mevinphos	ND	0.0049	0.0027	1.00	
Naled	ND	0.039	0.019	1.00	
Phorate	ND	0.0049	0.0025	1.00	
Ronnel	ND	0.0049	0.0032	1.00	
Stirophos	ND	0.020	0.0086	1.00	
Tokuthion	ND	0.0049	0.0028	1.00	
Trichloronate	ND	0.0049	0.0021	1.00	
Demeton-o/s	ND	0.0049	0.0027	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	83	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM110	**15-03-2020-8-I**	**03/25/15 10:28**	**Aqueous**	**GC 35**	**03/27/15**	**03/31/15 20:44**	**150327L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	81	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-963-91**	**N/A**	**Aqueous**	**GC 35**	**03/27/15**	**03/31/15 12:17**	**150327L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	83	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-03-2020-1-J**	**03/25/15 10:28**	**Aqueous**	**GC 40**	**03/27/15**	**04/06/15 13:42**	**150327L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	80	0-123	

HSM120	15-03-2020-2-I	03/25/15 10:51	Aqueous	GC 40	03/27/15	04/06/15 14:05	150327L05

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	87	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-03-2020-3-I**	**03/25/15 11:17**	**Aqueous**	**GC 40**	**03/27/15**	**04/06/15 14:28**	**150327L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	81	0-123	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-03-2020-4-I**	**03/25/15 11:30**	**Aqueous**	**GC 40**	**03/27/15**	**04/06/15 14:51**	**150327L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	65	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-03-2020-5-I**	**03/25/15 12:25**	**Aqueous**	**GC 40**	**03/27/15**	**04/06/15 15:14**	**150327L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	91	0-123	

HSM160	15-03-2020-6-I	03/25/15 12:50	Aqueous	GC 40	03/27/15	04/06/15 15:37	150327L05

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	85	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-03-2020-7-I**	**03/25/15 13:18**	**Aqueous**	**GC 40**	**03/27/15**	**04/06/15 16:00**	**150327L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	80	0-123	

FDHSM110	15-03-2020-8-I	03/25/15 10:28	Aqueous	GC 40	03/27/15	04/06/15 16:23	150327L05

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	95	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-034-640**	**N/A**	**Aqueous**	**GC 40**	**03/27/15**	**03/31/15 16:04**	**150327L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	94	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-03-2020-1-G**	**03/25/15 10:28**	**Aqueous**	**GC/MS CCC**	**03/27/15**	**03/30/15 17:02**	**150327L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	03/26/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-2020
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 3 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	87	33-120	
2-Fluorophenol	86	24-120	
Nitrobenzene-d5	81	38-120	
p-Terphenyl-d14	81	41-137	
Phenol-d6	88	16-120	
2,4,6-Tribromophenol	85	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-03-2020-2-G**	**03/25/15 10:51**	**Aqueous**	**GC/MS CCC**	**03/27/15**	**03/30/15 17:20**	**150327L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	03/26/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-2020
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 6 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	80	33-120	
2-Fluorophenol	76	24-120	
Nitrobenzene-d5	71	38-120	
p-Terphenyl-d14	73	41-137	
Phenol-d6	78	16-120	
2,4,6-Tribromophenol	74	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-03-2020-3-G**	**03/25/15 11:17**	**Aqueous**	**GC/MS CCC**	**03/27/15**	**03/30/15 17:38**	**150327L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	03/26/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-2020
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 9 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	80	33-120	
2-Fluorophenol	77	24-120	
Nitrobenzene-d5	72	38-120	
p-Terphenyl-d14	75	41-137	
Phenol-d6	79	16-120	
2,4,6-Tribromophenol	74	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-03-2020-4-G**	**03/25/15 11:30**	**Aqueous**	**GC/MS CCC**	**03/27/15**	**03/30/15 17:56**	**150327L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	03/26/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-2020
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 12 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	82	33-120	
2-Fluorophenol	78	24-120	
Nitrobenzene-d5	73	38-120	
p-Terphenyl-d14	75	41-137	
Phenol-d6	81	16-120	
2,4,6-Tribromophenol	76	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-03-2020-5-G**	**03/25/15 12:25**	**Aqueous**	**GC/MS CCC**	**03/27/15**	**03/30/15 18:14**	**150327L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	03/26/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-2020
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 15 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	90	33-120	
2-Fluorophenol	83	24-120	
Nitrobenzene-d5	81	38-120	
p-Terphenyl-d14	86	41-137	
Phenol-d6	84	16-120	
2,4,6-Tribromophenol	83	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-03-2020-6-G**	**03/25/15 12:50**	**Aqueous**	**GC/MS CCC**	**03/27/15**	**03/30/15 18:32**	**150327L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	03/26/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-2020
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 18 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	85	33-120	
2-Fluorophenol	82	24-120	
Nitrobenzene-d5	77	38-120	
p-Terphenyl-d14	79	41-137	
Phenol-d6	84	16-120	
2,4,6-Tribromophenol	80	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-03-2020-7-G**	**03/25/15 13:18**	**Aqueous**	**GC/MS CCC**	**03/27/15**	**03/30/15 18:50**	**150327L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	03/26/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-2020
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 21 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	90	33-120	
2-Fluorophenol	87	24-120	
Nitrobenzene-d5	81	38-120	
p-Terphenyl-d14	81	41-137	
Phenol-d6	88	16-120	
2,4,6-Tribromophenol	81	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM110	**15-03-2020-8-G**	**03/25/15 10:28**	**Aqueous**	**GC/MS CCC**	**03/27/15**	**03/30/15 19:08**	**150327L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.7	2.7	1.00	
Acenaphthylene	ND	9.7	2.8	1.00	
Aniline	ND	9.7	1.5	1.00	
Anthracene	ND	9.7	2.9	1.00	
Azobenzene	ND	9.7	2.6	1.00	
Benzidine	ND	49	6.3	1.00	
Benzo (a) Anthracene	ND	9.7	4.5	1.00	
Benzo (a) Pyrene	ND	9.7	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.7	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.7	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.7	3.1	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.7	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.7	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.7	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.7	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.7	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.7	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.7	2.3	1.00	
4-Chloroaniline	ND	9.7	1.9	1.00	
2-Chloronaphthalene	ND	9.7	2.7	1.00	
2-Chlorophenol	ND	9.7	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.7	2.6	1.00	
Chrysene	ND	9.7	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.7	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.7	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.7	2.5	1.00	
Dibenzofuran	ND	9.7	2.7	1.00	
1,2-Dichlorobenzene	ND	9.7	3.0	1.00	
1,3-Dichlorobenzene	ND	9.7	3.0	1.00	
1,4-Dichlorobenzene	ND	9.7	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.7	2.7	1.00	
Dimethyl Phthalate	ND	9.7	2.5	1.00	
2,4-Dimethylphenol	ND	9.7	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.7	2.3	1.00	
2,6-Dinitrotoluene	ND	9.7	2.3	1.00	
Fluoranthene	ND	9.7	3.0	1.00	
Fluorene	ND	9.7	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.7	2.8	1.00	
Hexachlorobenzene	ND	9.7	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.7	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.7	2.1	1.00	
Isophorone	ND	9.7	2.5	1.00	
2-Methylnaphthalene	ND	9.7	2.7	1.00	
1-Methylnaphthalene	ND	9.7	2.7	1.00	
2-Methylphenol	ND	9.7	2.0	1.00	
3/4-Methylphenol	ND	9.7	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.7	2.3	1.00	
N-Nitrosodimethylamine	ND	9.7	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.7	2.7	1.00	
Naphthalene	ND	9.7	2.8	1.00	
4-Nitroaniline	ND	9.7	2.1	1.00	
3-Nitroaniline	ND	9.7	2.2	1.00	
2-Nitroaniline	ND	9.7	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.7	1.5	1.00	
2-Nitrophenol	ND	9.7	2.5	1.00	
Pentachlorophenol	ND	9.7	4.5	1.00	
Phenanthrene	ND	9.7	2.8	1.00	
Phenol	ND	9.7	2.0	1.00	
Pyrene	ND	9.7	2.9	1.00	
Pyridine	ND	9.7	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.7	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.7	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	03/26/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-2020
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 24 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	83	33-120	
2-Fluorophenol	78	24-120	
Nitrobenzene-d5	75	38-120	
p-Terphenyl-d14	78	41-137	
Phenol-d6	79	16-120	
2,4,6-Tribromophenol	77	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-4016**	**N/A**	**Aqueous**	**GC/MS CCC**	**03/27/15**	**03/27/15 20:24**	**150327L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.5	1.00	
Benzo (k) Fluoranthene	ND	10	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.7	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.8	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.5	1.00	
Dibenzofuran	ND	10	2.8	1.00	
1,2-Dichlorobenzene	ND	10	3.0	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	10	2.3	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.1	1.00	
Isophorone	ND	10	2.5	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.8	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.1	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.6	1.00	
Phenanthrene	ND	10	2.9	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.8	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	03/26/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-2020
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 27 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	85	33-120	
2-Fluorophenol	73	24-120	
Nitrobenzene-d5	78	38-120	
p-Terphenyl-d14	86	41-137	
Phenol-d6	76	16-120	
2,4,6-Tribromophenol	79	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-03-2020-1-A**	**03/25/15 10:28**	**Aqueous**	**GC/MS QQ**	**04/04/15**	**04/04/15 11:49**	**150404L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	80-120	
Dibromofluoromethane	107	78-126	
1,2-Dichloroethane-d4	108	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-03-2020-2-A**	**03/25/15 10:51**	**Aqueous**	**GC/MS QQ**	**04/04/15**	**04/04/15 15:23**	**150404L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	108	78-126	
1,2-Dichloroethane-d4	111	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-03-2020-3-A**	**03/25/15 11:17**	**Aqueous**	**GC/MS QQ**	**04/04/15**	**04/04/15 15:50**	**150404L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	109	75-135	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-03-2020-4-A**	**03/25/15 11:30**	**Aqueous**	**GC/MS QQ**	**04/04/15**	**04/04/15 16:17**	**150404L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	80-120	
Dibromofluoromethane	111	78-126	
1,2-Dichloroethane-d4	112	75-135	
Toluene-d8	104	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-03-2020-5-A**	**03/25/15 12:25**	**Aqueous**	**GC/MS QQ**	**04/04/15**	**04/04/15 16:43**	**150404L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	109	78-126	
1,2-Dichloroethane-d4	113	75-135	
Toluene-d8	105	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-03-2020-6-A**	**03/25/15 12:50**	**Aqueous**	**GC/MS QQ**	**04/04/15**	**04/04/15 17:10**	**150404L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	80-120	
Dibromofluoromethane	107	78-126	
1,2-Dichloroethane-d4	110	75-135	
Toluene-d8	106	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-03-2020-7-A**	**03/25/15 13:18**	**Aqueous**	**GC/MS QQ**	**04/04/15**	**04/04/15 17:37**	**150404L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	80-120	
Dibromofluoromethane	110	78-126	
1,2-Dichloroethane-d4	110	75-135	
Toluene-d8	103	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM110	**15-03-2020-8-A**	**03/25/15 10:28**	**Aqueous**	**GC/MS QQ**	**04/04/15**	**04/04/15 18:04**	**150404L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	80-120	
Dibromofluoromethane	113	78-126	
1,2-Dichloroethane-d4	115	75-135	
Toluene-d8	104	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB04	**15-03-2020-9-A**	**03/25/15 00:00**	**Aqueous**	**GC/MS QQ**	**04/04/15**	**04/04/15 18:30**	**150404L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	80-120	
Dibromofluoromethane	109	78-126	
1,2-Dichloroethane-d4	112	75-135	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-16776**	**N/A**	**Aqueous**	**GC/MS QQ**	**04/04/15**	**04/04/15 11:20**	**150404L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	110	78-126	
1,2-Dichloroethane-d4	110	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM110	**15-03-2020-1**	**03/25/15 10:28**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.23	0.10	0.025	1.00		mg/L	N/A	03/26/15	EPA 300.0
Chloride (24)	24	1.0	0.12	1.00		mg/L	N/A	03/26/15	EPA 300.0
Bromide (24)	0.16	0.10	0.037	1.00		mg/L	N/A	03/26/15	EPA 300.0
Nitrate (as N) (24)	0.36	0.10	0.025	1.00		mg/L	N/A	03/26/15	EPA 300.0
Sulfate (24)	33	1.0	0.19	1.00		mg/L	N/A	03/26/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	04/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	244	5.00	0.848	1.00		mg/L	N/A	04/08/15	SM 2320B
Bicarbonate (as CaCO3) (24)	244	5.00	0.848	1.00		mg/L	N/A	04/08/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	04/08/15	SM 2320B
Solids, Total Dissolved (24)	365	1.00	0.870	1.00		mg/L	03/31/15	03/31/15	SM 2540 C
Solids, Total Suspended (24)	5.9	1.0	0.83	1.00		mg/L	03/30/15	03/30/15	SM 2540 D
pH (24)	7.29	0.01	0.01	1.00	BV,BU	pH units	N/A	03/26/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	04/03/15	04/03/15	SM 4500 N Org B
Carbon, Total Organic (24)	1.4	1.0	0.47	2.00		mg/L	04/08/15	04/09/15	SM 5310 B
Carbon, Dissolved Organic (24)	1.9	0.50	0.24	1.00		mg/L	03/31/15	04/01/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM120	**15-03-2020-2**	**03/25/15 10:51**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.22	0.10	0.025	1.00		mg/L	N/A	03/26/15	EPA 300.0
Chloride (24)	19	1.0	0.12	1.00		mg/L	N/A	03/26/15	EPA 300.0
Bromide (24)	0.12	0.10	0.037	1.00		mg/L	N/A	03/26/15	EPA 300.0
Nitrate (as N) (24)	1.2	0.10	0.025	1.00		mg/L	N/A	03/26/15	EPA 300.0
Sulfate (24)	27	1.0	0.19	1.00		mg/L	N/A	03/26/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	04/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	248	5.00	0.848	1.00		mg/L	N/A	04/08/15	SM 2320B
Bicarbonate (as CaCO3) (24)	248	5.00	0.848	1.00		mg/L	N/A	04/08/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	04/08/15	SM 2320B
Solids, Total Dissolved (24)	355	1.00	0.870	1.00		mg/L	03/31/15	03/31/15	SM 2540 C
Solids, Total Suspended (24)	2.0	1.0	0.83	1.00		mg/L	03/30/15	03/30/15	SM 2540 D
pH (24)	7.33	0.01	0.01	1.00	BV,BU	pH units	N/A	03/26/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	04/03/15	04/03/15	SM 4500 N Org B
Carbon, Total Organic (24)	2.2	1.0	0.47	2.00		mg/L	04/08/15	04/09/15	SM 5310 B
Carbon, Dissolved Organic (24)	2.3	0.50	0.24	1.00		mg/L	03/31/15	04/01/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM130	**15-03-2020-3**	**03/25/15 11:17**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.22	0.10	0.025	1.00		mg/L	N/A	03/26/15	EPA 300.0
Chloride (24)	23	1.0	0.12	1.00		mg/L	N/A	03/26/15	EPA 300.0
Bromide (24)	0.12	0.10	0.037	1.00		mg/L	N/A	03/26/15	EPA 300.0
Nitrate (as N) (24)	2.0	0.10	0.025	1.00		mg/L	N/A	03/26/15	EPA 300.0
Sulfate (24)	33	1.0	0.19	1.00		mg/L	N/A	03/26/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	04/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	273	5.00	0.848	1.00		mg/L	N/A	04/08/15	SM 2320B
Bicarbonate (as CaCO3) (24)	273	5.00	0.848	1.00		mg/L	N/A	04/08/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	04/08/15	SM 2320B
Solids, Total Dissolved (24)	345	1.00	0.870	1.00		mg/L	03/31/15	03/31/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	03/30/15	03/30/15	SM 2540 D
pH (24)	7.42	0.01	0.01	1.00	BV,BU	pH units	N/A	03/26/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	04/03/15	04/03/15	SM 4500 N Org B
Carbon, Total Organic (24)	3.3	2.5	1.2	5.00		mg/L	04/08/15	04/09/15	SM 5310 B
Carbon, Dissolved Organic (24)	1.1	0.50	0.24	1.00		mg/L	03/31/15	04/01/15	SM 5310 B

HSM140	**15-03-2020-4**	**03/25/15 11:30**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.22	0.10	0.025	1.00		mg/L	N/A	03/27/15	EPA 300.0
Chloride (24)	19	1.0	0.12	1.00		mg/L	N/A	03/27/15	EPA 300.0
Bromide (24)	ND	0.10	0.037	1.00		mg/L	N/A	03/27/15	EPA 300.0
Nitrate (as N) (24)	1.1	0.10	0.025	1.00		mg/L	N/A	03/27/15	EPA 300.0
Sulfate (24)	28	1.0	0.19	1.00		mg/L	N/A	03/27/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	04/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	262	5.00	0.848	1.00		mg/L	N/A	04/08/15	SM 2320B
Bicarbonate (as CaCO3) (24)	262	5.00	0.848	1.00		mg/L	N/A	04/08/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	04/08/15	SM 2320B
Solids, Total Dissolved (24)	315	1.00	0.870	1.00		mg/L	03/31/15	03/31/15	SM 2540 C
Solids, Total Suspended (24)	2.2	1.0	0.83	1.00		mg/L	03/30/15	03/30/15	SM 2540 D
pH (24)	7.62	0.01	0.01	1.00	BV,BU	pH units	N/A	03/26/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.28	0.50	0.28	1.00	J	mg/L	04/03/15	04/03/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	1.0	0.47	2.00		mg/L	04/08/15	04/09/15	SM 5310 B
Carbon, Dissolved Organic (24)	1.9	0.50	0.24	1.00		mg/L	03/31/15	04/01/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM150	**15-03-2020-5**	**03/25/15 12:25**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.23	0.10	0.025	1.00		mg/L	N/A	03/27/15	EPA 300.0
Chloride (24)	19	1.0	0.12	1.00		mg/L	N/A	03/27/15	EPA 300.0
Bromide (24)	0.11	0.10	0.037	1.00		mg/L	N/A	03/27/15	EPA 300.0
Nitrate (as N) (24)	1.1	0.10	0.025	1.00		mg/L	N/A	03/27/15	EPA 300.0
Sulfate (24)	28	1.0	0.19	1.00		mg/L	N/A	03/27/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	04/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	258	5.00	0.848	1.00		mg/L	N/A	04/08/15	SM 2320B
Bicarbonate (as CaCO3) (24)	258	5.00	0.848	1.00		mg/L	N/A	04/08/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	04/08/15	SM 2320B
Solids, Total Dissolved (24)	345	1.00	0.870	1.00		mg/L	03/31/15	03/31/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	03/30/15	03/30/15	SM 2540 D
pH (24)	7.71	0.01	0.01	1.00	BV,BU	pH units	N/A	03/26/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.28	0.50	0.28	1.00	J	mg/L	04/03/15	04/03/15	SM 4500 N Org B
Carbon, Total Organic (24)	2.8	1.0	0.47	2.00		mg/L	04/08/15	04/09/15	SM 5310 B
Carbon, Dissolved Organic (24)	ND	0.50	0.24	1.00		mg/L	03/31/15	04/01/15	SM 5310 B

HSM160	**15-03-2020-6**	**03/25/15 12:50**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.21	0.10	0.025	1.00		mg/L	N/A	03/27/15	EPA 300.0
Chloride (24)	19	1.0	0.12	1.00		mg/L	N/A	03/27/15	EPA 300.0
Bromide (24)	0.11	0.10	0.037	1.00		mg/L	N/A	03/27/15	EPA 300.0
Nitrate (as N) (24)	1.1	0.10	0.025	1.00		mg/L	N/A	03/27/15	EPA 300.0
Sulfate (24)	28	1.0	0.19	1.00		mg/L	N/A	03/27/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	04/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	256	5.00	0.848	1.00		mg/L	N/A	04/08/15	SM 2320B
Bicarbonate (as CaCO3) (24)	256	5.00	0.848	1.00		mg/L	N/A	04/08/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	04/08/15	SM 2320B
Solids, Total Dissolved (24)	300	1.00	0.870	1.00		mg/L	03/31/15	03/31/15	SM 2540 C
Solids, Total Suspended (24)	1.8	1.0	0.83	1.00		mg/L	03/30/15	03/30/15	SM 2540 D
pH (24)	7.82	0.01	0.01	1.00	BV,BU	pH units	N/A	03/26/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	04/03/15	04/03/15	SM 4500 N Org B
Carbon, Total Organic (24)	2.4	1.0	0.47	2.00		mg/L	04/08/15	04/09/15	SM 5310 B
Carbon, Dissolved Organic (24)	0.96	0.50	0.24	1.00		mg/L	03/31/15	04/01/15	SM 5310 B

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM170	**15-03-2020-7**	**03/25/15 13:18**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.22	0.10	0.025	1.00		mg/L	N/A	03/27/15	EPA 300.0
Chloride (24)	19	1.0	0.12	1.00		mg/L	N/A	03/27/15	EPA 300.0
Bromide (24)	0.11	0.10	0.037	1.00		mg/L	N/A	03/27/15	EPA 300.0
Nitrate (as N) (24)	1.1	0.10	0.025	1.00		mg/L	N/A	03/27/15	EPA 300.0
Sulfate (24)	28	1.0	0.19	1.00		mg/L	N/A	03/27/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	04/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	255	5.00	0.848	1.00		mg/L	N/A	04/08/15	SM 2320B
Bicarbonate (as CaCO3) (24)	255	5.00	0.848	1.00		mg/L	N/A	04/08/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	04/08/15	SM 2320B
Solids, Total Dissolved (24)	355	1.00	0.870	1.00		mg/L	03/31/15	03/31/15	SM 2540 C
Solids, Total Suspended (24)	2.7	1.0	0.83	1.00		mg/L	03/30/15	03/30/15	SM 2540 D
pH (24)	7.87	0.01	0.01	1.00	BV,BU	pH units	N/A	03/26/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.28	0.50	0.28	1.00	J	mg/L	04/03/15	04/03/15	SM 4500 N Org B
Carbon, Total Organic (24)	1.5	1.0	0.47	2.00		mg/L	04/08/15	04/09/15	SM 5310 B
Carbon, Dissolved Organic (24)	2.2	0.50	0.24	1.00		mg/L	03/31/15	04/01/15	SM 5310 B

FDHSM110	**15-03-2020-8**	**03/25/15 10:28**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.23	0.10	0.025	1.00		mg/L	N/A	03/27/15	EPA 300.0
Chloride (24)	24	1.0	0.12	1.00		mg/L	N/A	03/27/15	EPA 300.0
Bromide (24)	0.15	0.10	0.037	1.00		mg/L	N/A	03/27/15	EPA 300.0
Nitrate (as N) (24)	0.36	0.10	0.025	1.00		mg/L	N/A	03/27/15	EPA 300.0
Sulfate (24)	33	1.0	0.19	1.00		mg/L	N/A	03/27/15	EPA 300.0
Phosphorus, Total (24)	0.022	0.050	0.020	1.00	J	mg/L	N/A	04/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	253	5.00	0.848	1.00		mg/L	N/A	04/08/15	SM 2320B
Bicarbonate (as CaCO3) (24)	253	5.00	0.848	1.00		mg/L	N/A	04/08/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	04/08/15	SM 2320B
Solids, Total Dissolved (24)	385	1.00	0.870	1.00		mg/L	03/31/15	03/31/15	SM 2540 C
Solids, Total Suspended (24)	9.0	1.0	0.83	1.00		mg/L	03/30/15	03/30/15	SM 2540 D
pH (24)	7.57	0.01	0.01	1.00	BV,BU	pH units	N/A	03/26/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.28	0.50	0.28	1.00	J	mg/L	04/03/15	04/03/15	SM 4500 N Org B
Carbon, Total Organic (24)	4.6	2.5	1.2	5.00		mg/L	04/08/15	04/09/15	SM 5310 B
Carbon, Dissolved Organic (24)	3.1	0.50	0.24	1.00		mg/L	03/31/15	04/01/15	SM 5310 B

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
Method Blank		**N/A**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	ND	0.10	0.025	1.00		mg/L	N/A	03/26/15	EPA 300.0
Chloride (24)	ND	1.0	0.12	1.00		mg/L	N/A	03/26/15	EPA 300.0
Bromide (24)	ND	0.10	0.037	1.00		mg/L	N/A	03/26/15	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.025	1.00		mg/L	N/A	03/26/15	EPA 300.0
Sulfate (24)	ND	1.0	0.19	1.00		mg/L	N/A	03/26/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	04/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	04/08/15	SM 2320B
Bicarbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	04/08/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	04/08/15	SM 2320B
Solids, Total Dissolved (24)	ND	1.0	0.87	1.00		mg/L	03/31/15	03/31/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	03/30/15	03/30/15	SM 2540 D
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	04/03/15	04/03/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	04/08/15	04/09/15	SM 5310 B
Carbon, Dissolved Organic (24)	ND	0.50	0.24	1.00		mg/L	03/31/15	04/01/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: N/A
Method: EPA 300.0

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-03-2018-3	**Sample**	**Aqueous**	**IC 15**	**N/A**	**03/26/15 21:41**	**150326S02A**
15-03-2018-3	**Matrix Spike**	**Aqueous**	**IC 15**	**N/A**	**03/26/15 23:39**	**150326S02A**
15-03-2018-3	**Matrix Spike Duplicate**	**Aqueous**	**IC 15**	**N/A**	**03/26/15 23:56**	**150326S02A**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Fluoride	0.1694	250.0	270.6	108	271.4	108	80-120	0	0-20	
Chloride	75.80	5000	5162	102	5139	101	80-120	0	0-20	
Bromide	0.1331	500.0	506.2	101	506.5	101	80-120	0	0-20	
Nitrate (as N)	ND	500.0	516.9	103	515.3	103	80-120	0	0-20	
Sulfate	217.8	5000	5289	101	5252	101	80-120	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM110	**Sample**	**Aqueous**	**ACA 1**	**N/A**	**04/09/15 14:45**	**150409SO1**
HSM110	**Matrix Spike**	**Aqueous**	**ACA 1**	**N/A**	**04/09/15 14:45**	**150409SO1**
HSM110	**Matrix Spike Duplicate**	**Aqueous**	**ACA 1**	**N/A**	**04/09/15 14:45**	**150409SO1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	ND	0.2000	0.2114	106	0.2133	107	90-110	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM110	**Sample**	**Aqueous**	**TOC 8**	**04/08/15**	**04/09/15 02:26**	**F0408TOCS1**
HSM110	**Matrix Spike**	**Aqueous**	**TOC 8**	**04/08/15**	**04/09/15 02:26**	**F0408TOCS1**
HSM110	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**04/08/15**	**04/09/15 02:26**	**F0408TOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	1.356	20.00	19.30	90	18.76	87	31-145	3	0-23	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM110	**Sample**	**Aqueous**	**TOC 8**	**03/31/15**	**04/01/15 00:32**	**F0331DOCS1**
HSM110	**Matrix Spike**	**Aqueous**	**TOC 8**	**03/31/15**	**04/01/15 00:32**	**F0331DOCS1**
HSM110	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**03/31/15**	**04/01/15 00:32**	**F0331DOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	1.900	10.00	11.20	93	10.60	87	31-145	6	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	03/26/15
6200 UTSA Blvd., Suite 102	Work Order:	15-03-2020
San Antonio, TX 78249-1618	Preparation:	EPA 3005A Filt.
	Method:	EPA 6010B
Project: EAA 27122		Page 5 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM110	**Sample**	**Aqueous**	**ICP 7300**	**03/27/15**	**04/09/15 22:10**	**150327SA4A**
HSM110	**Matrix Spike**	**Aqueous**	**ICP 7300**	**03/27/15**	**04/09/15 22:12**	**150327SA4A**
HSM110	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**03/27/15**	**04/09/15 22:14**	**150327SA4A**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Calcium	93.90	0.5000	91.60	4X	91.56	4X	77-113	4X	0-11	Q
Magnesium	17.97	0.5000	18.08	4X	18.28	4X	56-140	4X	0-11	Q
Potassium	1.310	5.000	6.076	95	6.142	97	83-131	1	0-7	
Sodium	12.69	5.000	17.64	99	17.52	97	73-127	1	0-9	
Strontium	0.5683	0.5000	1.070	100	1.066	100	81-123	0	0-6	
Silicon	3.627	0.5000	3.891	4X	3.987	4X	24-180	4X	0-15	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3005A Filt.
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM110	**Sample**	**Aqueous**	**ICP/MS 03**	**03/27/15**	**03/28/15 05:36**	**150327SA2**
HSM110	**Matrix Spike**	**Aqueous**	**ICP/MS 03**	**03/27/15**	**03/28/15 04:46**	**150327SA2**
HSM110	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 03**	**03/27/15**	**03/28/15 04:50**	**150327SA2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.1000	0.09764	98	0.09578	96	85-133	2	0-11	
Arsenic	ND	0.1000	0.09620	96	0.09635	96	73-127	0	0-11	
Barium	0.04094	0.1000	0.1431	102	0.1401	99	74-128	2	0-10	
Beryllium	ND	0.1000	0.09566	96	0.09402	94	56-122	2	0-11	
Cadmium	ND	0.1000	0.09273	93	0.09150	91	84-114	1	0-8	
Chromium	ND	0.1000	0.1084	108	0.1077	108	73-133	1	0-11	
Copper	ND	0.1000	0.09824	98	0.09708	97	72-108	1	0-10	
Lead	ND	0.1000	0.1090	109	0.1064	106	79-121	2	0-10	
Nickel	0.001933	0.1000	0.09848	97	0.09765	96	68-122	1	0-10	
Selenium	ND	0.1000	0.08043	80	0.08116	81	59-125	1	0-12	
Silver	ND	0.05000	0.04849	97	0.04799	96	68-128	1	0-14	
Thallium	ND	0.1000	0.1081	108	0.1049	105	73-121	3	0-11	
Zinc	ND	0.1000	0.08774	88	0.08583	86	43-145	2	0-39	
Aluminum	ND	0.1000	0.1102	110	0.1102	110	47-161	0	0-24	
Iron	ND	5.100	5.426	106	5.393	106	27-201	1	0-24	
Manganese	0.02222	0.1000	0.1247	103	0.1229	101	72-126	2	0-42	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	03/26/15
6200 UTSA Blvd., Suite 102	Work Order:	15-03-2020
San Antonio, TX 78249-1618	Preparation:	EPA 7470A Total
	Method:	EPA 7470A
Project: EAA 27122		Page 7 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-03-2120-1	**Sample**	**Aqueous**	**Mercury 04**	**04/01/15**	**04/01/15 16:40**	**150401S04**
15-03-2120-1	**Matrix Spike**	**Aqueous**	**Mercury 04**	**04/01/15**	**04/01/15 16:43**	**150401S04**
15-03-2120-1	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 04**	**04/01/15**	**04/01/15 16:45**	**150401S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.01095	109	0.01059	106	57-141	3	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM170	**Sample**	**Aqueous**	**LC/TQ 2**	**03/28/15**	**03/30/15 11:05**	**150328S13**
HSM170	**Matrix Spike**	**Aqueous**	**LC/TQ 2**	**03/28/15**	**03/30/15 11:22**	**150328S13**
HSM170	**Matrix Spike Duplicate**	**Aqueous**	**LC/TQ 2**	**03/28/15**	**03/30/15 11:30**	**150328S13**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Caffeine	ND	100.0	107.6	108	109.9	110	70-130	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM110	**Sample**	**Aqueous**	**GC/MS QQ**	**04/04/15**	**04/04/15 11:49**	**150404S002**
HSM110	**Matrix Spike**	**Aqueous**	**GC/MS QQ**	**04/04/15**	**04/04/15 12:16**	**150404S002**
HSM110	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS QQ**	**04/04/15**	**04/04/15 12:42**	**150404S002**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	48.59	97	48.55	97	74-122	0	0-21	
Carbon Tetrachloride	ND	50.00	65.82	132	67.48	135	60-144	2	0-21	
Chlorobenzene	ND	50.00	50.88	102	48.86	98	73-120	4	0-22	
1,2-Dibromoethane	ND	50.00	50.28	101	50.87	102	80-122	1	0-20	
1,2-Dichlorobenzene	ND	50.00	48.67	97	47.92	96	70-120	2	0-26	
1,2-Dichloroethane	ND	50.00	49.78	100	50.54	101	64-142	2	0-20	
1,1-Dichloroethene	ND	50.00	48.65	97	48.95	98	52-136	1	0-21	
Ethylbenzene	ND	50.00	51.82	104	51.06	102	77-125	1	0-24	
Toluene	ND	50.00	50.04	100	50.69	101	72-126	1	0-23	
Trichloroethene	ND	50.00	48.31	97	49.30	99	74-128	2	0-22	
Vinyl Chloride	ND	50.00	46.71	93	49.37	99	67-133	6	0-20	
p/m-Xylene	ND	100.0	102.1	102	99.99	100	63-129	2	0-25	
o-Xylene	ND	50.00	51.77	104	51.01	102	62-128	1	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	52.14	104	55.33	111	68-134	6	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3005A Filt.
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
HSM110	**Sample**	**Aqueous**	**ICP/MS 03**	**03/27/15 00:00**	**03/28/15 05:36**	**150327SA2**
HSM110	**PDS**	**Aqueous**	**ICP/MS 03**	**03/27/15 00:00**	**03/30/15 13:56**	**150327SA2**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Antimony	ND	0.1000	0.09903	99	75-125	
Arsenic	ND	0.1000	0.09484	95	75-125	
Barium	0.04094	0.1000	0.1422	101	75-125	
Beryllium	ND	0.1000	0.09830	98	75-125	
Cadmium	ND	0.1000	0.09563	96	75-125	
Chromium	ND	0.1000	0.1058	106	75-125	
Copper	ND	0.1000	0.09546	95	75-125	
Lead	ND	0.1000	0.1085	109	75-125	
Nickel	0.001933	0.1000	0.09740	95	75-125	
Selenium	ND	0.1000	0.08715	87	75-125	
Silver	ND	0.05000	0.04873	97	75-125	
Thallium	ND	0.1000	0.1071	107	75-125	
Zinc	ND	0.1000	0.09145	91	75-125	
Aluminum	ND	0.1000	0.1129	113	75-125	
Iron	ND	5.100	5.122	100	75-125	
Manganese	0.02222	0.1000	0.1272	105	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-04-0164-1	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**04/08/15 21:35**	**F0408ALKD7**
15-04-0164-1	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**04/08/15 21:35**	**F0408ALKD7**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	349.0	350.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-04-0164-1	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**04/08/15 21:35**	**F0408HCOD7**
15-04-0164-1	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**04/08/15 21:35**	**F0408HCOD7**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Bicarbonate (as CaCO3)	349.0	350.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-04-0164-1	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**04/08/15 21:35**	**F0408CO3D7**
15-04-0164-1	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**04/08/15 21:35**	**F0408CO3D7**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Carbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM110	**Sample**	**Aqueous**	**SC 5**	**03/31/15 00:00**	**03/31/15 16:00**	**F0331TDSD2**
HSM110	**Sample Duplicate**	**Aqueous**	**SC 5**	**03/31/15 00:00**	**03/31/15 16:00**	**F0331TDSD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	365.0	345.0	6	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-03-2045-1	**Sample**	**Aqueous**	**N/A**	**03/30/15 00:00**	**03/30/15 14:00**	**F0330TSSD1**
15-03-2045-1	**Sample Duplicate**	**Aqueous**	**N/A**	**03/30/15 00:00**	**03/30/15 14:00**	**F0330TSSD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Suspended	32.00	33.00	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: N/A
Method: SM 4500 H+ B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM110	**Sample**	**Aqueous**	**PH 1**	**N/A**	**03/26/15 18:08**	**F0326PHD1**
HSM110	**Sample Duplicate**	**Aqueous**	**PH 1**	**N/A**	**03/26/15 18:08**	**F0326PHD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	7.290	7.360	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: N/A
Method: SM 4500 N Org B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-03-2116-5	**Sample**	**Aqueous**	**BUR05**	**04/03/15 00:00**	**04/03/15 17:40**	**F0403TKND1**
15-03-2116-5	**Sample Duplicate**	**Aqueous**	**BUR05**	**04/03/15 00:00**	**04/03/15 17:40**	**F0403TKND1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Total Kjeldahl Nitrogen	1.400	1.260	11	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	03/26/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-2020
San Antonio, TX 78249-1618		Preparation:	N/A
		Method:	EPA 300.0
Project: EAA 27122			Page 1 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-906-5550	**LCS**	**Aqueous**	**IC 15**	**N/A**	**03/26/15 20:00**	**150326L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Fluoride	2.500	2.704	108	90-110	
Chloride	50.00	49.16	98	90-110	
Bromide	5.000	4.931	99	90-110	
Nitrate (as N)	5.000	4.901	98	90-110	
Sulfate	50.00	49.21	98	90-110	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-739-102	**LCS**	**Aqueous**	**ACA 1**	**N/A**	**04/09/15 14:45**	**150409LO1**
099-12-739-102	**LCSD**	**Aqueous**	**ACA 1**	**N/A**	**04/09/15 14:45**	**150409LO1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.2000	0.1942	97	0.1939	97	90-110	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-859-653	**LCS**	**Aqueous**	**PH1/BUR03**	**N/A**	**04/08/15 21:35**	**F0408ALKB7**
099-15-859-653	**LCSD**	**Aqueous**	**PH1/BUR03**	**N/A**	**04/08/15 21:35**	**F0408ALKB7**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	100.0	96.00	96	97.00	97	80-120	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-180-4493	**LCS**	**Aqueous**	**SC 5**	**03/31/15**	**03/31/15 16:00**	**F0331TDSL1**
099-12-180-4493	**LCSD**	**Aqueous**	**SC 5**	**03/31/15**	**03/31/15 16:00**	**F0331TDSL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100.0	100.0	100	105.0	105	80-120	5	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-010-7116	**LCS**	**Aqueous**	**N/A**	**03/30/15**	**03/30/15 14:00**	**F0330TSSL1**
099-09-010-7116	**LCSD**	**Aqueous**	**N/A**	**03/30/15**	**03/30/15 14:00**	**F0330TSSL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Suspended	100.0	97.00	97	108.0	108	80-120	11	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-5582	**LCS**	**Aqueous**	**TOC 8**	**04/08/15**	**04/09/15 02:26**	**F0408TOCL1**
099-05-097-5582	**LCSD**	**Aqueous**	**TOC 8**	**04/08/15**	**04/09/15 02:26**	**F0408TOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	10.00	9.480	95	9.760	98	80-120	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-115-1415	**LCS**	**Aqueous**	**TOC 8**	**03/31/15**	**04/01/15 00:32**	**F0331DOCL1**
099-05-115-1415	**LCSD**	**Aqueous**	**TOC 8**	**03/31/15**	**04/01/15 00:32**	**F0331DOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	10.00	9.390	94	9.630	96	80-120	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	03/26/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-2020
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B
Project: EAA 27122			Page 8 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-683-1214	**LCS**	**Aqueous**	**ICP 7300**	**03/27/15**	**04/10/15 11:56**	**150327L4FF**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Calcium	0.5000	0.4970	99	80-120	
Magnesium	0.5000	0.5718	114	80-120	
Potassium	5.000	5.029	101	80-120	
Sodium	5.000	5.056	101	80-120	
Strontium	0.5000	0.4983	100	80-120	
Silicon	0.5000	0.4713	94	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	03/26/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-2020
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: EAA 27122			Page 9 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-693-771	**LCS**	**Aqueous**	**ICP/MS 03**	**03/27/15**	**03/30/15 12:35**	**150327LA2F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.1000	0.09688	97	80-120	73-127	
Arsenic	0.1000	0.09482	95	80-120	73-127	
Barium	0.1000	0.09290	93	80-120	73-127	
Beryllium	0.1000	0.09953	100	80-120	73-127	
Cadmium	0.1000	0.09826	98	80-120	73-127	
Chromium	0.1000	0.09945	99	80-120	73-127	
Copper	0.1000	0.09729	97	80-120	73-127	
Lead	0.1000	0.09527	95	80-120	73-127	
Nickel	0.1000	0.09429	94	80-120	73-127	
Selenium	0.1000	0.1013	101	80-120	73-127	
Silver	0.05000	0.04850	97	80-120	73-127	
Thallium	0.1000	0.09357	94	80-120	73-127	
Zinc	0.1000	0.09931	99	80-120	73-127	
Aluminum	0.1000	0.1154	115	80-120	73-127	
Iron	5.100	5.026	99	80-120	73-127	
Manganese	0.1000	0.09703	97	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	03/26/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-2020
San Antonio, TX 78249-1618		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A
Project: EAA 27122			Page 10 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-763-527	**LCS**	**Aqueous**	**Mercury 04**	**04/01/15**	**04/01/15 16:38**	**150401L04F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.01105	110	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	03/26/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-2020
San Antonio, TX 78249-1618		Preparation:	EPA 1694
		Method:	EPA 1694 (M) Caffeine
Project: EAA 27122			Page 11 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-376-12	**LCS**	**Aqueous**	**LC/TQ 2**	**03/28/15**	**03/30/15 09:58**	**150328L13**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Caffeine	100.0	107.0	107	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8081A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-796	**LCS**	**Aqueous**	**GC 44**	**03/27/15**	**03/30/15 12:46**	**150327L02A**
099-12-529-796	**LCSD**	**Aqueous**	**GC 44**	**03/27/15**	**03/30/15 13:00**	**150327L02A**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.4850	97	0.4828	97	50-135	36-149	0	0-25	
Gamma-BHC	0.5000	0.5070	101	0.5042	101	50-135	36-149	1	0-25	
Beta-BHC	0.5000	0.4772	95	0.4782	96	50-135	36-149	0	0-25	
Heptachlor	0.5000	0.4821	96	0.4850	97	50-135	36-149	1	0-25	
Delta-BHC	0.5000	0.4634	93	0.4551	91	50-135	36-149	2	0-25	
Aldrin	0.5000	0.4749	95	0.4772	95	50-135	36-149	0	0-25	
Heptachlor Epoxide	0.5000	0.4811	96	0.4732	95	50-135	36-149	2	0-25	
Endosulfan I	0.5000	0.4744	95	0.4709	94	50-135	36-149	1	0-25	
Dieldrin	0.5000	0.4839	97	0.4751	95	50-135	36-149	2	0-25	
4,4'-DDE	0.5000	0.4858	97	0.4703	94	50-135	36-149	3	0-25	
Endrin	0.5000	0.4426	89	0.4365	87	50-135	36-149	1	0-25	
Endrin Aldehyde	0.5000	0.4914	98	0.4952	99	50-135	36-149	1	0-25	
4,4'-DDD	0.5000	0.4758	95	0.4610	92	50-135	36-149	3	0-25	
Endosulfan II	0.5000	0.4640	93	0.4575	91	50-135	36-149	1	0-25	
4,4'-DDT	0.5000	0.4236	85	0.4212	84	50-135	36-149	1	0-25	
Endosulfan Sulfate	0.5000	0.4443	89	0.4370	87	50-135	36-149	2	0-25	
Methoxychlor	0.5000	0.4198	84	0.4184	84	50-135	36-149	0	0-25	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8082

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1019	**LCS**	**Aqueous**	**GC 31**	**03/27/15**	**03/30/15 12:35**	**150327L03**
099-12-533-1019	**LCSD**	**Aqueous**	**GC 31**	**03/27/15**	**03/30/15 12:54**	**150327L03**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	1.627	81	1.650	82	50-135	1	0-25	
Aroclor-1260	2.000	1.787	89	1.774	89	50-135	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8141A

Project: EAA 27122

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-963-91	**LCS**	**Aqueous**	**GC 35**	**03/27/15**	**03/31/15 13:03**	**150327L04**
099-15-963-91	**LCSD**	**Aqueous**	**GC 35**	**03/27/15**	**03/31/15 13:49**	**150327L04**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	0.04000	0.03546	89	0.03499	87	30-130	13-147	1	0-30	
Bolstar	0.04000	0.03327	83	0.03426	86	30-130	13-147	3	0-30	
Chlorpyrifos	0.04000	0.03179	79	0.03357	84	30-130	13-147	5	0-30	
Coumaphos	0.04000	0.03464	87	0.03413	85	30-130	13-147	1	0-30	
Diazinon	0.04000	0.03167	79	0.03410	85	30-130	13-147	7	0-30	
Disulfoton	0.04000	0.03590	90	0.03761	94	30-130	13-147	5	0-30	
Ethoprop	0.04000	0.03292	82	0.03434	86	30-130	13-147	4	0-30	
Fensulfothion	0.04000	0.03543	89	0.03564	89	30-130	13-147	1	0-30	
Fenthion	0.04000	0.03284	82	0.03428	86	30-130	13-147	4	0-30	
Merphos	0.04000	0.03377	84	0.03489	87	30-130	13-147	3	0-30	
Methyl Parathion	0.04000	0.03267	82	0.03369	84	30-130	13-147	3	0-30	
Phorate	0.04000	0.03866	97	0.04052	101	30-130	13-147	5	0-30	
Ronnel	0.04000	0.03059	76	0.03228	81	30-130	13-147	5	0-30	
Stirophos	0.04000	0.02142	54	0.02241	56	30-130	13-147	5	0-30	
Tokuthion	0.04000	0.03195	80	0.03343	84	30-130	13-147	5	0-30	
Trichloronate	0.04000	0.03261	82	0.03435	86	30-130	13-147	5	0-30	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 8151A
Method: EPA 8151A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-034-640	**LCS**	**Aqueous**	**GC 40**	**03/27/15**	**03/31/15 16:50**	**150327L05**
095-01-034-640	**LCSD**	**Aqueous**	**GC 40**	**03/27/15**	**03/31/15 17:13**	**150327L05**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	20.00	15.04	75	18.24	91	30-130	19	0-30	
2,4,5-T	2.000	2.065	103	1.985	99	30-130	4	0-30	
2,4-DB	20.00	15.68	78	19.28	96	30-130	21	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 03/26/15
Work Order: 15-03-2020
Preparation: EPA 3510C
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-4016	**LCS**	**Aqueous**	**GC/MS CCC**	**03/27/15**	**03/27/15 20:42**	**150327L06**
095-01-003-4016	**LCSD**	**Aqueous**	**GC/MS CCC**	**03/27/15**	**03/27/15 21:00**	**150327L06**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	200.0	173.6	87	175.8	88	61-120	51-130	1	0-20	
Acenaphthylene	200.0	173.1	87	173.2	87	55-120	44-131	0	0-20	
Butyl Benzyl Phthalate	200.0	182.5	91	180.6	90	56-122	45-133	1	0-20	
4-Chloro-3-Methylphenol	200.0	147.8	74	143.8	72	52-120	41-131	3	0-20	
2-Chlorophenol	200.0	151.7	76	149.2	75	47-120	35-132	2	0-20	
1,4-Dichlorobenzene	200.0	148.7	74	149.7	75	36-120	22-134	1	0-20	
Dimethyl Phthalate	200.0	161.9	81	163.6	82	60-120	50-130	1	0-20	
2,4-Dinitrotoluene	200.0	158.7	79	157.3	79	61-121	51-131	1	0-20	
Fluorene	200.0	173.1	87	172.3	86	67-120	58-129	0	0-20	
N-Nitroso-di-n-propylamine	200.0	147.4	74	146.9	73	39-123	25-137	0	0-20	
Naphthalene	200.0	154.2	77	152.0	76	54-120	43-131	1	0-20	
4-Nitrophenol	200.0	154.6	77	151.2	76	14-120	0-138	2	0-20	
Pentachlorophenol	200.0	131.3	66	127.7	64	31-127	15-143	3	0-20	
Phenol	200.0	148.1	74	146.9	73	17-120	0-137	1	0-20	
Pyrene	200.0	169.4	85	167.6	84	58-124	47-135	1	0-20	
1,2,4-Trichlorobenzene	200.0	152.4	76	152.9	76	49-120	37-132	0	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	03/26/15
6200 UTSA Blvd., Suite 102		Work Order:	15-03-2020
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 17 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-16776	**LCS**	**Aqueous**	**GC/MS QQ**	**04/04/15**	**04/04/15 10:17**	**150404L002**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	47.60	95	80-120	73-127	
Carbon Tetrachloride	50.00	63.50	127	67-139	55-151	
Chlorobenzene	50.00	47.52	95	78-120	71-127	
1,2-Dibromoethane	50.00	48.22	96	80-120	73-127	
1,2-Dichlorobenzene	50.00	46.49	93	63-129	52-140	
1,2-Dichloroethane	50.00	47.55	95	70-130	60-140	
1,1-Dichloroethene	50.00	47.83	96	66-126	56-136	
Ethylbenzene	50.00	50.50	101	80-123	73-130	
Toluene	50.00	48.57	97	80-120	73-127	
Trichloroethene	50.00	47.31	95	80-122	73-129	
Vinyl Chloride	50.00	48.27	97	70-130	60-140	
p/m-Xylene	100.0	97.32	97	75-123	67-131	
o-Xylene	50.00	48.81	98	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	51.88	104	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-03-2020 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 1694 (M) Caffeine	EPA 1694	262	LC/TQ 2	1
EPA 300.0	N/A	650	IC 15	1
EPA 365.1	N/A	735	ACA 1	1
EPA 6010B	EPA 3005A Filt.	935	ICP 7300	1
EPA 6020	EPA 3005A Filt.	598	ICP/MS 03	1
EPA 7470A	EPA 7470A Filt.	915	Mercury 04	1
EPA 8081A	EPA 3510C	669	GC 44	1
EPA 8082	EPA 3510C	960	GC 31	1
EPA 8141A	EPA 3510C	949	GC 35	1
EPA 8151A	EPA 8151A	669	GC 40	1
EPA 8260B	EPA 5030C	486	GC/MS QQ	2
EPA 8270C	EPA 3510C	923	GC/MS CCC	1
SM 2320B	N/A	885	PH1/BUR03	1
SM 2540 C	N/A	689	SC 5	1
SM 2540 D	N/A	689	N/A	1
SM 4500 H+ B	N/A	688	PH 1	1
SM 4500 N Org B	N/A	685	BUR05	1
SM 5310 B	N/A	735	TOC 8	1

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Glossary of Terms and Qualifiers

Work Order: 15-03-2020 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **15-03-2020**

DATE: March 25th, 2015

PAGE: 1 OF 1

LABORATORY CLIENT: SWCA Environmental Consultants

ADDRESS: 6200 UTSA Blvd. Suite 102

CITY: San Antonio STATE: TX ZIP: 78249-1618

TEL: 210.877.2847 E-MAIL: PPearce@swca.com

CLIENT PROJECT NAME / NUMBER: EAA 27122

P.O. NO.:

PROJECT CONTACT: Philip Pearce

SAMPLER(S): (PRINT) Jennifer Moreland, Brittany Reis

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 10 Days (standard)

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Samples for EPA 6010B, EPA 6020, and EPA 7470 Metals are field filtered
EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn
Please also analyze each sample for pH.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 6010B (Si, Ca, Mg, K, Na, Sr)	EPA 6020 (See Comments)	EPA 7470A Mercury	EPA 1694 (M) Caffeine	EPA 8081A Organochlorine Pesticides	EPA 8082 PCB Aroclors	EPA 8141A Organophosphorus Pest	EPA 8151A Chlorinated Herbicides	EPA 8270C Semi-Volatile Organics	EPA 8260B Volatile Organics	EPA 300 Anions (F, Cl, Br, NO3, SO4, CO3)	EPA 365.1 Total Phosphorus	SM 2320B Alkalinity: Total, Bicarb, Carb	SM 5310B TOC	SM 5310B DOC	SM 5310B Solids, Total Dissolved	SM 4500 N Org B TKN	EPA 160.2 TSS
1	HSM 110	3/25/15	10:28	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	HSM 120	3/25/15	10:51	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	HSM 130	3/25/15	11:17	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	HSM 140	3/25/15	11:30	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	HSM 150	3/25/15	12:25	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	HSM 160	3/25/15	12:50	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	HSM 170	3/25/15	13:18	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	FD HSM 110	3/25/15	10:28	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	TB04	3/25/15	NA	NPW	1													X								

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 3/25/15	Time: 16:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 3/26/15	Time: 1040

06/02/14 Revision

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Michael Belvin
SWCA
6200 UTSA Blvd
Ste 102
San Antonio, TX 78249

J151215022303uv

SHIP TO: (714) 895-5494 BILL SENDER
Lab
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7440 LINCOLN WAY

GARDEN GROVE, CA 92841

ActWgt: 60.0 LB Dims: 24 X 13 X 14 IN
CAD: 8347991/INET3610

Delivery Address Bar Code

Ref # 27122.02.06
Invoice #
PO #
Dept #

1 of 8 THU - 26 MAR 3:00P
STANDARD OVERNIGHT

TRK# 7732 1480 6187
0201

MASTER

92841
CA-US
SNA

A7 APVA

2020

Ship Date: 25MAR15
ActWgt: 60.0 LB Dims: 24 X 13 X 14 IN
CAD: 8347991/INET3610

Delivery Address Bar Code

Ref # 27122.02.06
Invoice #
PO #
Dept #

2 of 8 THU - 26 MAR 3:00P
STANDARD OVERNIGHT

MPS# 7732 1480 6382
0263
Mstr# 7732 1480 6187 0201

92841
CA-US
SNA

A7 APVA

Ship Date: 25MAR15
ActWgt: 60.0 LB Dims: 24 X 13 X 14 IN
CAD: 8347991/INET3610

Delivery Address Bar Code

Ref # 27122.02.06
Invoice #
PO #
Dept #

3 of 8 THU - 26 MAR 3:00P
STANDARD OVERNIGHT

MPS# 7732 1480 6268
0263
Mstr# 7732 1480 6187 0201

92841
CA-US
SNA

A7 APVA

Ship Date: 25MAR15
ActWgt: 60.0 LB Dims: 24 X 13 X 14 IN
CAD: 8347991/INET3610

Delivery Address Bar Code

Ref # 27122.02.06
Invoice #
PO #
Dept #

4 of 8 THU - 26 MAR 3:00P
STANDARD OVERNIGHT

MPS# 7732 1480 6636
0263
Mstr# 7732 1480 6187 0201

92841
CA-US
SNA

A7 APVA

Ship Date: 25MAR15
ActWgt: 60.0 LB Dims: 24 X 13 X 14 IN
CAD: 8347991/INET3610

Delivery Address Bar Code

Ref # 27122.02.06
Invoice #
PO #
Dept #

5 of 8 THU - 26 MAR 3:00P
STANDARD OVERNIGHT

MPS# 7732 1480 6740
0263
Mstr# 7732 1480 6187 0201

92841
CA-US
SNA

A7 APVA

Ship Date: 25MAR15
ActWgt: 60.0 LB Dims: 24 X 13 X 14 IN
CAD: 8347991/INET3610

Delivery Address Bar Code

Ref # 27122.02.06
Invoice #
PO #
Dept #

6 of 8 THU - 26 MAR 3:00P
STANDARD OVERNIGHT

MPS# 7732 1480 7003
0263
Mstr# 7732 1480 6187 0201

92841
CA-US
SNA

A7 APVA

Ship Date: 25MAR15
ActWgt: 60.0 LB Dims: 24 X 13 X 14 IN
CAD: 8347991/INET3610

Delivery Address Bar Code

Ref # 27122.02.06
Invoice #
PO #
Dept #

7 of 8 THU - 26 MAR 3:00P
STANDARD OVERNIGHT

MPS# 7732 1480 7036
0263
Mstr# 7732 1480 6187 0201

92841
CA-US
SNA

A7 APVA

Ship Date: 25MAR15
ActWgt: 60.0 LB Dims: 24 X 13 X 14 IN
CAD: 8347991/INET3610

Delivery Address Bar Code

Ref # 27122.02.06

8 of 8 THU - 26 MAR 3:00P
STANDARD OVERNIGHT

7732 1480 7140
Mstr# 7732 1480 6187 0201

92841
CA-US
SNA

A7 APVA

537J/89/WEE4B

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WORK ORDER NUMBER: 15-03-2020

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 8

CLIENT: SWCA

DATE: 03 / 26 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4 (CF: +0.2°C) Temperature (w/o CF): 2.7 °C (w/ CF): 2.9 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Not Intact ☑ Not Present ☐ N/A Checked by: 659

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: 3 (Trip Blank Lot Number: 150306A)

Aqueous: ☐VOA ☑VOAh ☐VOA**na**$_2$ ☐100PJ ☐100PJ**na**$_2$ ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐125PB ☐125PB**znna** ☐250AGB ☐250CGB ☑2 250CGB**s** ☐250PB ☑250PB**n** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐500PB ☑1AGB ☐1AGB**na**$_2$ ☑1AGB**s** ☐1PB ☐1PB**na** ☑ 25 total cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐16ozPJ ☐Sleeve (____) ☐EnCores® ☐TerraCores® ☐ _____ ☐ _____

Air: ☐Tedlar® ☐Canister ☐Sorbent Tube ☐PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A**=Amber, **B**=Bottle, **C**=Clear, **E**=Envelope, **G**=Glass, **J**=Jar, **P**=Plastic, and **Z**= Ziploc/Resealable Bag

Preservative: **f**=filtered, **h**=HCl, **n**=HNO_3, **na**=NaOH, **na**$_2$=$Na_2S_2O_3$, **p**=H_3PO_4, **s**=H_2SO_4, **u**=ultra-pure, **znna**=$Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 659

Reviewed by: 856

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WORK ORDER NUMBER: 15-03-2020

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 8

CLIENT: SWCA

DATE: 03 / 26 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4 (CF: +0.2°C) Temperature (w/o CF): 3.3 °C (w/ CF): 3.5 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Not Intact ☑ Not Present ☐ N/A Checked by: 689

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: 3 (Trip Blank Lot Number: _____)

Aqueous: ☐VOA ☑VOAh ☐VOAna_2 ☐100PJ ☐100PJna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐125PB

☐125PBznna ☐250AGB ☐250CGB ☑250CGBs 2 ☐250PB ☑250PBn 1 ☐500AGB ☐500AGJ ☐500AGJs

☐500PB ☑1AGB ☐1AGBna_2 ☑1AGBs ☐1PB ☐1PBna ☑ 2.5 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐16ozPJ ☐Sleeve (____) ☐EnCores® ☐TerraCores® ☐ _____ ☐ _____

Air: ☐Tedlar® ☐Canister ☐Sorbent Tube ☐PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: A=Amber, B=Bottle, C=Clear, E=Envelope, G=Glass, J=Jar, P=Plastic, and Z= Ziploc/Resealable Bag

Preservative: f=filtered, h=HCl, n=HNO_3, na=NaOH, na_2=$Na_2S_2O_3$, p=H_3PO_4, s=H_2SO_4, u=ultra-pure, znna=$Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 689

Reviewed by: SM

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WORK ORDER NUMBER: 15-03-2020

SAMPLE RECEIPT CHECKLIST

COOLER 3 OF 8

CLIENT: SWCA

DATE: 03 / 26 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4 (CF: +0.2°C) Temperature (w/o CF): 3.4 °C (w/ CF): 3.6 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Not Intact ☑ Not Present ☐ N/A Checked by: 689

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: ?

(Trip Blank Lot Number: _____)

Aqueous: ☐VOA ☑VOAh ☐VOA**na**$_2$ ☐100PJ ☐100PJ**na**$_2$ ☐125AGB ☐125AGBh ☐125AGBp ☐125PB ☐125PB**znna** ☐250AGB ☐250CGB ☑250CGBs ☐250PB ☑250PBn ☐500AGB ☐500AGJ ☐500AGJs ☐500PB ☑1AGB ☐1AGB**na**$_2$ ☑1AGBs ☐1PB ☐1PB**na** ☑ 2.5 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐16ozPJ ☐Sleeve (____) ☐EnCores® ☐TerraCores® ☐ _____ ☐ _____

Air: ☐Tedlar® ☐Canister ☐Sorbent Tube ☐PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A**=Amber, **B**=Bottle, **C**=Clear, **E**=Envelope, **G**=Glass, **J**=Jar, **P**=Plastic, and **Z**= Ziploc/Resealable Bag

Preservative: **f**=filtered, **h**=HCl, **n**=HNO_3, **na**=NaOH, **na**$_2$=$Na_2S_2O_3$, **p**=H_3PO_4, **s**=H_2SO_4, **u**=ultra-pure, **znna**=$Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 689

Reviewed by: SR

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WORK ORDER NUMBER: 15-03-2020

SAMPLE RECEIPT CHECKLIST

COOLER 4 OF 8

CLIENT: SWCA

DATE: 03 / 26 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4 (CF: +0.2°C) Temperature (w/o CF): 4.0 °C (w/ CF): 4.2 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Not Intact ☑ Not Present ☐ N/A Checked by: 659

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: 3

(Trip Blank Lot Number: _____)

Aqueous: ☐VOA ☑VOAh ☐VOA**na**$_2$ ☐100PJ ☐100PJ**na**$_2$ ☐125AGB ☐125AGBh ☐125AGBp ☐125PB ☐125PB**znna** ☐250AGB ☐250CGB ☑250CGBs 2 ☐250PB ☑250PBn 1 ☐500AGB ☐500AGJ ☐500AGJs ☐500PB ☑1AGB ☐1AGB**na**$_2$ ☑1AGBs ☐1PB ☐1PB**na** ☑ 25 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐16ozPJ ☐Sleeve (____) ☐EnCores® ☐TerraCores® ☐ _____ ☐ _____

Air: ☐Tedlar® ☐Canister ☐Sorbent Tube ☐PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: A=Amber, B=Bottle, C=Clear, E=Envelope, G=Glass, J=Jar, P=Plastic, and Z= Ziploc/Resealable Bag

Preservative: f=filtered, h=HCl, n=HNO_3, na=NaOH, na$_2$=$Na_2S_2O_3$, p=H_3PO_4, s=H_2SO_4, u=ultra-pure, znna=$Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 659

Reviewed by: SM

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WORK ORDER NUMBER: 15-03-2020

SAMPLE RECEIPT CHECKLIST

COOLER 5 OF 8

CLIENT: SWCA

DATE: 03 / 26 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4 (CF: +0.2°C) Temperature (w/o CF): 3.5 °C (w/ CF): 3.7 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Not Intact ☑ Not Present ☐ N/A Checked by: 689

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: 2 (Trip Blank Lot Number: _____)

Aqueous: ☐VOA ☑VOAh ☐VOA**na$_2$** ☐100PJ ☐100PJ**na$_2$** ☐125AGB ☐125AGBh ☐125AGBp ☐125PB ☐125PB**znna** ☐250AGB ☐250CGB ☑250CGBs ☐250PB ☑250PB**n** ☐500AGB ☐500AGJ ☐500AGJs ☐500PB ☑1AGB ☐1AGB**na$_2$** ☑1AGBs ☐1PB ☐1PB**na** ☑ 25 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐16ozPJ ☐Sleeve (____) ☐EnCores® ☐TerraCores® ☐ _____ ☐ _____

Air: ☐Tedlar® ☐Canister ☐Sorbent Tube ☐PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: A=Amber, B=Bottle, C=Clear, E=Envelope, G=Glass, J=Jar, P=Plastic, and Z= Ziploc/Resealable Bag

Preservative: f=filtered, h=HCl, n=HNO_3, na=NaOH, na$_2$=$Na_2S_2O_3$, p=H_3PO_4, s=H_2SO_4, u=ultra-pure, znna=$Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 689

Reviewed by: SM

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WORK ORDER NUMBER: 15-03-2020

SAMPLE RECEIPT CHECKLIST

COOLER 6 OF 8

CLIENT: SWCA

DATE: 03 / 26 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4 (CF: +0.2°C) Temperature (w/o CF): 4.1 °C (w/ CF): 4.3 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Not Intact ☑ Not Present ☐ N/A Checked by: 659

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐VOA ☑VOAh ☐VOAna_2 ☐100PJ ☐100PJna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐125PB ☐125PB**znna** ☐250AGB ☐250CGB ☑250CGBs ☐250PB ☑250PBn ☐500AGB ☐500AGJ ☐500AGJs ☐500PB ☑1AGB ☐1AGBna_2 ☑1AGBs ☐1PB ☐1PB**na** ☑ 25 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐16ozPJ ☐Sleeve (____) ☐EnCores® ☐TerraCores® ☐ _____ ☐ _____

Air: ☐Tedlar® ☐Canister ☐Sorbent Tube ☐PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A**=Amber, **B**=Bottle, **C**=Clear, **E**=Envelope, **G**=Glass, **J**=Jar, **P**=Plastic, and **Z**= Ziploc/Resealable Bag

Preservative: **f**=filtered, **h**=HCl, **n**=HNO_3, **na**=NaOH, **na_2**=$Na_2S_2O_3$, **p**=H_3PO_4, **s**=H_2SO_4, **u**=ultra-pure, **znna**=$Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 659

Reviewed by: BM

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WORK ORDER NUMBER: 15-03-2020

SAMPLE RECEIPT CHECKLIST

COOLER 7 OF 8

CLIENT: SWCA

DATE: 03 / 26 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4 (CF: +0.2°C) Temperature (w/o CF): 3.9 °C (w/ CF): 4.1 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Not Intact ☑ Not Present ☐ N/A Checked by: 659

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: 2 (Trip Blank Lot Number: _____)

Aqueous: ☐VOA ☑VOAh ☐VOA**na$_2$** ☐100PJ ☐100PJ**na$_2$** ☐125AGB ☐125AGBh ☐125AGBp ☐125PB ☐125PB**znna** ☐250AGB ☐250CGB ☑250CGBs ☐250PB ☑250PB**n** ☐500AGB ☐500AGJ ☐500AGJs ☐500PB ☑1AGB ☐1AGB**na$_2$** ☑1AGBs ☐1PB ☐1PB**na** ☑ 250ml cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐16ozPJ ☐Sleeve (____) ☐EnCores® ☐TerraCores® ☐ _____ ☐ _____

Air: ☐Tedlar® ☐Canister ☐Sorbent Tube ☐PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: A=Amber, B=Bottle, C=Clear, E=Envelope, G=Glass, J=Jar, P=Plastic, and Z= Ziploc/Resealable Bag

Preservative: f=filtered, h=HCl, n=HNO_3, na=NaOH, na$_2$=$Na_2S_2O_3$, p=H_3PO_4, s=H_2SO_4, u=ultra-pure, znna=$Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 659

Reviewed by: SM

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WORK ORDER NUMBER: 15-03-2020

SAMPLE RECEIPT CHECKLIST

COOLER 8 OF 8

CLIENT: SWCA

DATE: 03 / 26 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC4 (CF: +0.2°C) Temperature (w/o CF): 3.5 °C (w/ CF): 3.7 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Not Intact ☑ Not Present ☐ N/A Checked by: 689

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: 7 (Trip Blank Lot Number: _____)

Aqueous: ☐VOA ☑VOAh ☐VOAna_2 ☐100PJ ☐100PJna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐125PB ☐125PBznna ☐250AGB ☐250CGB ☑250CGBs ☐250PB ☑250PBn[illegible] ☐500AGB ☐500AGJ ☐500AGJs ☐500PB ☑1AGB ☐1AGBna_2 ☑1AGBs ☐1PB ☐1PBna ☑ 25 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐16ozPJ ☐Sleeve (____) ☐EnCores® ☐TerraCores® ☐ _____ ☐ _____

Air: ☐Tedlar® ☐Canister ☐Sorbent Tube ☐PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: A=Amber, B=Bottle, C=Clear, E=Envelope, G=Glass, J=Jar, P=Plastic, and Z= Ziploc/Resealable Bag

Preservative: f=filtered, h=HCl, n=HNO_3, na=NaOH, na_2=$Na_2S_2O_3$, p=H_3PO_4, s=H_2SO_4, u=ultra-pure, znna=$Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 689

Reviewed by: SM6

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SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS110
Sample Number: AA96986
Sample Matrix: Non Potable Water

Collection Date/Time: 9/9/15 10:11
Receipt Date/Time: 9/9/15 14:07

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA96986-A	E. coli	√	SM 9223B-2004	800	MPN/100 mL		1	44141	9/9/15	16:11	MD/PAL
AA96986-A	E. Coli Holding Time - IDEXX Colilert		NA	6.00	hours		0.00	44140	9/9/15	16:11	MD/PAL

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44141

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---
Log Range for E. coli	0.4746			0.0	---	0.5

Patricia M. Carvajal
Quality Assurance Supervisor

9/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 9/11/2015 4:09:25PM as released by PMC

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS120
Sample Number: AA96987
Sample Matrix: Non Potable Water

Collection Date/Time: 9/9/15 10:44
Receipt Date/Time: 9/9/15 14:07

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA96987-A	E. coli	√	SM 9223B-2004	67	MPN/100 mL		1	44141	9/9/15	16:11	MD/PAL
AA96987-A	E. Coli Holding Time - IDEXX Colilert		NA	5.45	hours		0.00	44140	9/9/15	16:11	MD/PAL

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44141

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

9/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 9/11/2015 4:09:25PM as released by PMC

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: FDHCS120
Sample Number: AA96988
Sample Matrix: Non Potable Water

Collection Date/Time: 9/9/15 10:44
Receipt Date/Time: 9/9/15 14:07

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA96988-A	E. coli	√	SM 9223B-2004	54	MPN/100 mL		1	44141	9/9/15	16:11	MD/PAL
AA96988-A	E. Coli Holding Time - IDEXX Colilert		NA	5.45	hours		0.00	44140	9/9/15	16:11	MD/PAL

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44141

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

9/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 9/11/2015 4:09:25PM as released by PMC

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Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS130
Sample Number: AA96989
Sample Matrix: Non Potable Water

Collection Date/Time: 9/9/15 09:30
Receipt Date/Time: 9/9/15 14:07

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA96989-A	E. coli	√	SM 9223B-2004	460	MPN/100 mL		1	44141	9/9/15	16:11	MD/PAL
AA96989-A	E. Coli Holding Time - IDEXX Colilert		NA	6.68	hours		0.00	44140	9/9/15	16:11	MD/PAL

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44141

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

9/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 9/11/2015 4:09:25PM as released by PMC

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS140
Sample Number: AA96990
Sample Matrix: Non Potable Water

Collection Date/Time: 9/9/15 11:12
Receipt Date/Time: 9/9/15 14:07

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA96990-A	E. coli	√	SM 9223B-2004	140	MPN/100 mL		1	44141	9/9/15	16:11	MD/PAL
AA96990-A	E. Coli Holding Time - IDEXX Colilert		NA	4.98	hours		0.00	44140	9/9/15	16:11	MD/PAL

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44141

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

9/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 9/11/2015 4:09:25PM as released by PMC

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS160
Sample Number: AA96991
Sample Matrix: Non Potable Water

Collection Date/Time: 9/9/15 11:39
Receipt Date/Time: 9/9/15 14:07

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA96991-A	E. coli	√	SM 9223B-2004	120	MPN/100 mL		1	44141	9/9/15	16:11	MD/PAL
AA96991-A	E. Coli Holding Time - IDEXX Colilert		NA	4.53	hours		0.00	44140	9/9/15	16:11	MD/PAL

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44141

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

9/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 9/11/2015 4:09:25PM as released by PMC

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WORK ORDER NUMBER: 15-09-0733

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: SWCA Environmental Consultants

Client Project Name: EAA 27122

Attention: Philip Pearce
6200 UTSA Blvd.
Suite 102
San Antonio, TX 78249-1618

Approved for release on 10/04/2015 by:
Don Burley
Project Manager

ResultLink

Email your PM

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Contents

Client Project Name: EAA 27122
Work Order Number: 15-09-0733

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Work Order Narrative

Work Order: 15-09-0733 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/10/15. They were assigned to Work Order 15-09-0733.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	SWCA Environmental Consultants	Work Order:	15-09-0733
	6200 UTSA Blvd., Suite 102	Project Name:	EAA 27122
	San Antonio, TX 78249-1618	PO Number:	27122.02.01
		Date/Time Received:	09/10/15 11:00
		Number of Containers:	55
Attn:	Philip Pearce		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
HCS110	15-09-0733-1	09/09/15 10:11	9	Aqueous
HCS120	15-09-0733-2	09/09/15 10:44	9	Aqueous
FDHCS120	15-09-0733-3	09/09/15 10:44	9	Aqueous
HCS130	15-09-0733-4	09/09/15 09:30	9	Aqueous
HCS140	15-09-0733-5	09/09/15 11:12	9	Aqueous
HCS160	15-09-0733-6	09/09/15 11:39	9	Aqueous
TB11	15-09-0733-7	09/09/15 00:00	1	Aqueous

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS110	**15-09-0733-1-I**	**09/09/15 10:11**	**Aqueous**	**IC 15**	**N/A**	**09/10/15 18:37**	**150910L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.23	0.10	0.025	1.00	
Chloride	18	1.0	0.12	1.00	
Bromide	0.098	0.10	0.037	1.00	J
Nitrate (as N)	1.2	0.10	0.025	1.00	
Sulfate	26	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS120	**15-09-0733-2-I**	**09/09/15 10:44**	**Aqueous**	**IC 15**	**N/A**	**09/10/15 18:55**	**150910L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.23	0.10	0.025	1.00	
Chloride	17	1.0	0.12	1.00	
Bromide	0.10	0.10	0.037	1.00	
Nitrate (as N)	1.8	0.10	0.025	1.00	
Sulfate	25	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS120	**15-09-0733-3-I**	**09/09/15 10:44**	**Aqueous**	**IC 15**	**N/A**	**09/10/15 19:14**	**150910L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.22	0.10	0.025	1.00	
Chloride	17	1.0	0.12	1.00	
Bromide	0.096	0.10	0.037	1.00	J
Nitrate (as N)	1.8	0.10	0.025	1.00	
Sulfate	25	1.0	0.19	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS130	**15-09-0733-4-I**	**09/09/15 09:30**	**Aqueous**	**IC 15**	**N/A**	**09/10/15 19:32**	**150910L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.22	0.10	0.025	1.00	
Chloride	18	1.0	0.12	1.00	
Bromide	0.097	0.10	0.037	1.00	J
Nitrate (as N)	1.8	0.10	0.025	1.00	
Sulfate	32	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS140	**15-09-0733-5-I**	**09/09/15 11:12**	**Aqueous**	**IC 15**	**N/A**	**09/10/15 19:51**	**150910L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.21	0.10	0.025	1.00	
Chloride	17	1.0	0.12	1.00	
Bromide	0.11	0.10	0.037	1.00	
Nitrate (as N)	1.7	0.10	0.025	1.00	
Sulfate	26	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS160	**15-09-0733-6-I**	**09/09/15 11:39**	**Aqueous**	**IC 15**	**N/A**	**09/10/15 20:09**	**150910L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.22	0.10	0.025	1.00	
Chloride	18	1.0	0.12	1.00	
Bromide	0.10	0.10	0.037	1.00	
Nitrate (as N)	1.8	0.10	0.025	1.00	
Sulfate	29	1.0	0.19	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-906-6058**	**N/A**	**Aqueous**	**IC 15**	**N/A**	**09/10/15 12:34**	**150910L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	ND	0.10	0.025	1.00	
Chloride	ND	1.0	0.12	1.00	
Bromide	ND	0.10	0.037	1.00	
Nitrate (as N)	ND	0.10	0.025	1.00	
Sulfate	ND	1.0	0.19	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS110	**15-09-0733-1-D**	**09/09/15 10:11**	**Aqueous**	**ICP 7300**	**09/11/15**	**09/19/15 23:22**	**150911LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	77.9	0.100	0.0118	1.00	B
Magnesium	17.5	0.100	0.00336	1.00	B
Potassium	1.75	0.500	0.103	1.00	B
Sodium	12.5	0.500	0.103	1.00	B
Strontium	0.729	0.0300	0.00277	1.00	
Silicon	5.32	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS120	**15-09-0733-2-D**	**09/09/15 10:44**	**Aqueous**	**ICP 7300**	**09/11/15**	**09/19/15 23:32**	**150911LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	82.2	0.100	0.0118	1.00	B
Magnesium	16.3	0.100	0.00336	1.00	B
Potassium	2.30	0.500	0.103	1.00	B
Sodium	12.7	0.500	0.103	1.00	B
Strontium	0.670	0.0300	0.00277	1.00	
Silicon	5.55	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS120	**15-09-0733-3-D**	**09/09/15 10:44**	**Aqueous**	**ICP 7300**	**09/11/15**	**09/19/15 23:36**	**150911LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	81.3	0.100	0.0118	1.00	B
Magnesium	15.4	0.100	0.00336	1.00	B
Potassium	2.04	0.500	0.103	1.00	B
Sodium	12.2	0.500	0.103	1.00	B
Strontium	0.665	0.0300	0.00277	1.00	
Silicon	5.20	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS130	**15-09-0733-4-D**	**09/09/15 09:30**	**Aqueous**	**ICP 7300**	**09/11/15**	**09/19/15 23:39**	**150911LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	82.7	0.100	0.0118	1.00	B
Magnesium	16.0	0.100	0.00336	1.00	B
Potassium	1.81	0.500	0.103	1.00	B
Sodium	13.5	0.500	0.103	1.00	B
Strontium	0.666	0.0300	0.00277	1.00	
Silicon	5.24	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS140	**15-09-0733-5-D**	**09/09/15 11:12**	**Aqueous**	**ICP 7300**	**09/11/15**	**09/19/15 23:42**	**150911LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	84.3	0.100	0.0118	1.00	B
Magnesium	16.0	0.100	0.00336	1.00	B
Potassium	1.77	0.500	0.103	1.00	B
Sodium	12.6	0.500	0.103	1.00	B
Strontium	0.665	0.0300	0.00277	1.00	
Silicon	5.39	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS160	**15-09-0733-6-D**	**09/09/15 11:39**	**Aqueous**	**ICP 7300**	**09/11/15**	**09/19/15 23:46**	**150911LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	81.2	0.100	0.0118	1.00	B
Magnesium	15.5	0.100	0.00336	1.00	B
Potassium	1.73	0.500	0.103	1.00	B
Sodium	12.5	0.500	0.103	1.00	B
Strontium	0.655	0.0300	0.00277	1.00	
Silicon	5.09	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-683-1396**	**N/A**	**Aqueous**	**ICP 7300**	**09/11/15**	**09/19/15 22:59**	**150911LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	0.0267	0.100	0.0118	1.00	J
Magnesium	0.0439	0.100	0.00336	1.00	J
Potassium	0.117	0.500	0.103	1.00	J
Sodium	0.116	0.500	0.103	1.00	J
Strontium	ND	0.0300	0.00277	1.00	
Silicon	ND	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS110	**15-09-0733-1-D**	**09/09/15 10:11**	**Aqueous**	**ICP/MS 03**	**09/16/15**	**09/22/15 01:44**	**150916LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	0.000505	0.00100	0.000386	1.00	J
Barium	0.0582	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000492	0.00100	0.000402	1.00	J
Copper	0.00457	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00199	0.00100	0.000132	1.00	
Selenium	0.000503	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0314	0.00500	0.000479	1.00	
Aluminum	0.00923	0.0500	0.00331	1.00	J
Iron	0.0424	0.0500	0.00926	1.00	J
Manganese	0.00481	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS120	**15-09-0733-2-D**	**09/09/15 10:44**	**Aqueous**	**ICP/MS 03**	**09/16/15**	**09/22/15 01:48**	**150916LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	0.000388	0.00100	0.000386	1.00	J
Barium	0.0549	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000524	0.00100	0.000402	1.00	J
Copper	0.00504	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00182	0.00100	0.000132	1.00	
Selenium	0.000521	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	0.000121	0.00100	0.000101	1.00	J
Zinc	0.00984	0.00500	0.000479	1.00	
Aluminum	0.00699	0.0500	0.00331	1.00	J
Iron	0.0364	0.0500	0.00926	1.00	J
Manganese	0.000820	0.00100	0.000139	1.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS120	**15-09-0733-3-D**	**09/09/15 10:44**	**Aqueous**	**ICP/MS 03**	**09/16/15**	**09/22/15 01:51**	**150916LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0537	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000482	0.00100	0.000402	1.00	J
Copper	0.000780	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00187	0.00100	0.000132	1.00	
Selenium	0.000932	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00773	0.00500	0.000479	1.00	
Aluminum	0.00954	0.0500	0.00331	1.00	J
Iron	0.0406	0.0500	0.00926	1.00	J
Manganese	0.000640	0.00100	0.000139	1.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS130	**15-09-0733-4-D**	**09/09/15 09:30**	**Aqueous**	**ICP/MS 03**	**09/16/15**	**09/22/15 01:55**	**150916LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0553	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000555	0.00100	0.000402	1.00	J
Copper	0.00160	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00204	0.00100	0.000132	1.00	
Selenium	0.000744	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	0.000109	0.00100	0.000101	1.00	J
Zinc	0.0159	0.00500	0.000479	1.00	
Aluminum	0.00749	0.0500	0.00331	1.00	J
Iron	0.0465	0.0500	0.00926	1.00	J
Manganese	0.00114	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS140	**15-09-0733-5-D**	**09/09/15 11:12**	**Aqueous**	**ICP/MS 03**	**09/16/15**	**09/22/15 01:58**	**150916LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000106	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0555	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000583	0.00100	0.000402	1.00	J
Copper	0.00276	0.00100	0.000140	1.00	
Lead	0.000112	0.00100	0.0000898	1.00	J
Nickel	0.00228	0.00100	0.000132	1.00	
Selenium	0.00229	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0350	0.00500	0.000479	1.00	
Aluminum	0.00923	0.0500	0.00331	1.00	J
Iron	0.0451	0.0500	0.00926	1.00	J
Manganese	0.00137	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS160	**15-09-0733-6-D**	**09/09/15 11:39**	**Aqueous**	**ICP/MS 03**	**09/16/15**	**09/22/15 02:02**	**150916LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0550	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000645	0.00100	0.000402	1.00	J
Copper	0.00660	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00235	0.00100	0.000132	1.00	
Selenium	0.00193	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00714	0.00500	0.000479	1.00	
Aluminum	0.00801	0.0500	0.00331	1.00	J
Iron	0.0399	0.0500	0.00926	1.00	J
Manganese	0.00269	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-693-912**	**N/A**	**Aqueous**	**ICP/MS 03**	**09/16/15**	**09/21/15 22:16**	**150916LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	ND	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	ND	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	ND	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	ND	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	ND	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS110	**15-09-0733-1-D**	**09/09/15 10:11**	**Aqueous**	**Mercury 04**	**09/15/15**	**09/15/15 20:36**	**150915LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS120	**15-09-0733-2-D**	**09/09/15 10:44**	**Aqueous**	**Mercury 04**	**09/15/15**	**09/15/15 20:38**	**150915LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS120	**15-09-0733-3-D**	**09/09/15 10:44**	**Aqueous**	**Mercury 04**	**09/15/15**	**09/15/15 20:40**	**150915LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS130	**15-09-0733-4-D**	**09/09/15 09:30**	**Aqueous**	**Mercury 04**	**09/15/15**	**09/15/15 20:47**	**150915LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS140	**15-09-0733-5-D**	**09/09/15 11:12**	**Aqueous**	**Mercury 04**	**09/15/15**	**09/15/15 20:49**	**150915LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS160	**15-09-0733-6-D**	**09/09/15 11:39**	**Aqueous**	**Mercury 04**	**09/15/15**	**09/15/15 20:51**	**150915LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	09/10/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-0733
San Antonio, TX 78249-1618		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A
		Units:	mg/L
Project: EAA 27122			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-763-614**	**N/A**	**Aqueous**	**Mercury 04**	**09/15/15**	**09/15/15 20:09**	**150915LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS110	**15-09-0733-1-I**	**09/09/15 10:11**	**Aqueous**	**GC 44**	**09/11/15**	**09/22/15 07:07**	**150911L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	75	50-135	
2,4,5,6-Tetrachloro-m-Xylene	73	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS120	**15-09-0733-2-I**	**09/09/15 10:44**	**Aqueous**	**GC 44**	**09/11/15**	**09/22/15 07:21**	**150911L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	50-135	
2,4,5,6-Tetrachloro-m-Xylene	92	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS120	**15-09-0733-3-I**	**09/09/15 10:44**	**Aqueous**	**GC 44**	**09/11/15**	**09/22/15 07:35**	**150911L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	50-135	
2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS130	**15-09-0733-4-I**	**09/09/15 09:30**	**Aqueous**	**GC 44**	**09/11/15**	**09/22/15 07:50**	**150911L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	50-135	
2,4,5,6-Tetrachloro-m-Xylene	95	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS140	**15-09-0733-5-I**	**09/09/15 11:12**	**Aqueous**	**GC 44**	**09/11/15**	**09/22/15 08:04**	**150911L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	92	50-135	
2,4,5,6-Tetrachloro-m-Xylene	89	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS160	**15-09-0733-6-I**	**09/09/15 11:39**	**Aqueous**	**GC 44**	**09/11/15**	**09/22/15 08:18**	**150911L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	50-135	
2,4,5,6-Tetrachloro-m-Xylene	89	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-529-840**	**N/A**	**Aqueous**	**GC 44**	**09/19/15**	**09/22/15 06:53**	**150911L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	50-135	
2,4,5,6-Tetrachloro-m-Xylene	97	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS110	**15-09-0733-1-I**	**09/09/15 10:11**	**Aqueous**	**GC 58**	**09/11/15**	**09/21/15 20:18**	**150911L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	50-135	
2,4,5,6-Tetrachloro-m-Xylene	78	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS120	**15-09-0733-2-I**	**09/09/15 10:44**	**Aqueous**	**GC 58**	**09/11/15**	**09/21/15 20:36**	**150911L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	50-135	
2,4,5,6-Tetrachloro-m-Xylene	98	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS120	**15-09-0733-3-I**	**09/09/15 10:44**	**Aqueous**	**GC 58**	**09/11/15**	**09/21/15 20:54**	**150911L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	100	50-135	
2,4,5,6-Tetrachloro-m-Xylene	94	50-135	

HCS130	15-09-0733-4-I	09/09/15 09:30	Aqueous	GC 58	09/11/15	09/21/15 21:12	150911L05

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	50-135	
2,4,5,6-Tetrachloro-m-Xylene	93	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS140	**15-09-0733-5-I**	**09/09/15 11:12**	**Aqueous**	**GC 58**	**09/11/15**	**09/21/15 21:30**	**150911L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	50-135	
2,4,5,6-Tetrachloro-m-Xylene	94	50-135	

HCS160	**15-09-0733-6-I**	**09/09/15 11:39**	**Aqueous**	**GC 58**	**09/11/15**	**09/21/15 21:48**	**150911L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	101	50-135	
2,4,5,6-Tetrachloro-m-Xylene	95	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-533-1086**	**N/A**	**Aqueous**	**GC 31**	**09/11/15**	**09/14/15 19:25**	**150911L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	50-135	
2,4,5,6-Tetrachloro-m-Xylene	87	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS110	**15-09-0733-1-I**	**09/09/15 10:11**	**Aqueous**	**GC 35**	**09/11/15**	**09/17/15 20:44**	**150911L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	92	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS120	**15-09-0733-2-I**	**09/09/15 10:44**	**Aqueous**	**GC 35**	**09/11/15**	**09/17/15 21:30**	**150911L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	92	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS120	**15-09-0733-3-I**	**09/09/15 10:44**	**Aqueous**	**GC 35**	**09/11/15**	**09/17/15 22:15**	**150911L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	89	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS130	**15-09-0733-4-I**	**09/09/15 09:30**	**Aqueous**	**GC 35**	**09/11/15**	**09/17/15 23:01**	**150911L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	91	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS140	**15-09-0733-5-I**	**09/09/15 11:12**	**Aqueous**	**GC 35**	**09/11/15**	**09/17/15 23:47**	**150911L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	90	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS160	**15-09-0733-6-I**	**09/09/15 11:39**	**Aqueous**	**GC 35**	**09/11/15**	**09/18/15 00:33**	**150911L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	88	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-963-111**	**N/A**	**Aqueous**	**GC 35**	**09/11/15**	**09/17/15 16:54**	**150911L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	93	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS110	**15-09-0733-1-I**	**09/09/15 10:11**	**Aqueous**	**GC 40**	**09/15/15**	**09/21/15 14:53**	**150915L16**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	62	0-123	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS120	**15-09-0733-2-I**	**09/09/15 10:44**	**Aqueous**	**GC 40**	**09/15/15**	**09/21/15 15:16**	**150915L16**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	53	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS120	**15-09-0733-3-I**	**09/09/15 10:44**	**Aqueous**	**GC 40**	**09/15/15**	**09/21/15 15:39**	**150915L16**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	66	0-123	

HCS130	15-09-0733-4-I	09/09/15 09:30	Aqueous	GC 40	09/15/15	09/21/15 16:03	150915L16

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	81	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS140	**15-09-0733-5-I**	**09/09/15 11:12**	**Aqueous**	**GC 40**	**09/15/15**	**09/21/15 16:26**	**150915L16**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	65	0-123	

HCS160	15-09-0733-6-I	09/09/15 11:39	Aqueous	GC 40	09/15/15	09/21/15 16:49	150915L16

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	69	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-034-659**	**N/A**	**Aqueous**	**GC 40**	**09/15/15**	**09/21/15 14:30**	**150915L16**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	50	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS110	**15-09-0733-1-H**	**09/09/15 10:11**	**Aqueous**	**GC/MS CCC**	**09/11/15**	**09/14/15 15:06**	**150911L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	09/10/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-0733
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 3 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	70	33-120	
2-Fluorophenol	45	24-120	
Nitrobenzene-d5	74	38-120	
p-Terphenyl-d14	81	41-137	
Phenol-d6	30	16-120	
2,4,6-Tribromophenol	104	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS120	**15-09-0733-2-H**	**09/09/15 10:44**	**Aqueous**	**GC/MS CCC**	**09/11/15**	**09/14/15 15:25**	**150911L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	09/10/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-0733
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 6 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	73	33-120	
2-Fluorophenol	49	24-120	
Nitrobenzene-d5	78	38-120	
p-Terphenyl-d14	81	41-137	
Phenol-d6	31	16-120	
2,4,6-Tribromophenol	109	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS120	**15-09-0733-3-H**	**09/09/15 10:44**	**Aqueous**	**GC/MS CCC**	**09/11/15**	**09/14/15 15:43**	**150911L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	09/10/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-0733
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 9 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	75	33-120	
2-Fluorophenol	50	24-120	
Nitrobenzene-d5	79	38-120	
p-Terphenyl-d14	87	41-137	
Phenol-d6	32	16-120	
2,4,6-Tribromophenol	111	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS130	**15-09-0733-4-H**	**09/09/15 09:30**	**Aqueous**	**GC/MS CCC**	**09/11/15**	**09/14/15 16:01**	**150911L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	09/10/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-0733
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 12 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	74	33-120	
2-Fluorophenol	48	24-120	
Nitrobenzene-d5	78	38-120	
p-Terphenyl-d14	88	41-137	
Phenol-d6	31	16-120	
2,4,6-Tribromophenol	115	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS140	**15-09-0733-5-H**	**09/09/15 11:12**	**Aqueous**	**GC/MS CCC**	**09/11/15**	**09/14/15 16:19**	**150911L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	09/10/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-0733
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 15 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	72	33-120	
2-Fluorophenol	44	24-120	
Nitrobenzene-d5	76	38-120	
p-Terphenyl-d14	82	41-137	
Phenol-d6	29	16-120	
2,4,6-Tribromophenol	104	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS160	**15-09-0733-6-H**	**09/09/15 11:39**	**Aqueous**	**GC/MS CCC**	**09/11/15**	**09/14/15 16:37**	**150911L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	09/10/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-0733
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 18 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	78	33-120	
2-Fluorophenol	49	24-120	
Nitrobenzene-d5	82	38-120	
p-Terphenyl-d14	87	41-137	
Phenol-d6	31	16-120	
2,4,6-Tribromophenol	114	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-4103**	**N/A**	**Aqueous**	**GC/MS CCC**	**09/11/15**	**09/12/15 13:10**	**150911L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.5	1.00	
Benzo (k) Fluoranthene	ND	10	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.7	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.8	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.5	1.00	
Dibenzofuran	ND	10	2.8	1.00	
1,2-Dichlorobenzene	ND	10	3.0	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	10	2.3	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.1	1.00	
Isophorone	ND	10	2.5	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.8	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.1	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.6	1.00	
Phenanthrene	ND	10	2.9	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.8	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	09/10/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-0733
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 21 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	71	33-120	
2-Fluorophenol	50	24-120	
Nitrobenzene-d5	77	38-120	
p-Terphenyl-d14	86	41-137	
Phenol-d6	32	16-120	
2,4,6-Tribromophenol	98	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS110	**15-09-0733-1-B**	**09/09/15 10:11**	**Aqueous**	**GC/MS UU**	**09/19/15**	**09/19/15 14:57**	**150919L005**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	98	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS120	**15-09-0733-2-B**	**09/09/15 10:44**	**Aqueous**	**GC/MS UU**	**09/19/15**	**09/19/15 15:25**	**150919L005**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	98	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS120	**15-09-0733-3-B**	**09/09/15 10:44**	**Aqueous**	**GC/MS UU**	**09/19/15**	**09/19/15 15:54**	**150919L005**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	97	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS130	**15-09-0733-4-B**	**09/09/15 09:30**	**Aqueous**	**GC/MS UU**	**09/19/15**	**09/19/15 16:23**	**150919L005**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	98	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS140	**15-09-0733-5-B**	**09/09/15 11:12**	**Aqueous**	**GC/MS UU**	**09/19/15**	**09/19/15 16:51**	**150919L005**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS160	**15-09-0733-6-B**	**09/09/15 11:39**	**Aqueous**	**GC/MS UU**	**09/19/15**	**09/19/15 17:20**	**150919L005**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	80-120	
Dibromofluoromethane	97	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB11	**15-09-0733-7-A**	**09/09/15 00:00**	**Aqueous**	**GC/MS UU**	**09/19/15**	**09/19/15 14:28**	**150919L005**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	0.25	1.0	0.24	1.00	J
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-18207**	**N/A**	**Aqueous**	**GC/MS UU**	**09/19/15**	**09/19/15 12:02**	**150919L005**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	97	78-126	
1,2-Dichloroethane-d4	99	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS110	**15-09-0733-1**	**09/09/15 10:11**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.085	0.050	0.020	1.00		mg/L	N/A	09/15/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	235	5.00	0.848	1.00		mg/L	N/A	09/17/15	SM 2320B
Bicarbonate (as CaCO3) (24)	235	5.00	0.848	1.00		mg/L	N/A	09/17/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/17/15	SM 2320B
Solids, Total Dissolved (24)	275	1.00	0.870	1.00		mg/L	09/16/15	09/16/15	SM 2540 C
Solids, Total Suspended (24)	21	1.0	0.83	1.00		mg/L	09/16/15	09/16/15	SM 2540 D
pH (24)	7.20	0.01	0.01	1.00	BV,BU	pH units	N/A	09/10/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	1.0	0.50	0.28	1.00		mg/L	09/21/15	09/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	44	2.5	1.2	5.00		mg/L	09/22/15	09/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	9.4	2.5	1.2	5.00		mg/L	09/11/15	09/12/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS120	**15-09-0733-2**	**09/09/15 10:44**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	09/15/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	221	5.00	0.848	1.00		mg/L	N/A	09/17/15	SM 2320B
Bicarbonate (as CaCO3) (24)	221	5.00	0.848	1.00		mg/L	N/A	09/17/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/17/15	SM 2320B
Solids, Total Dissolved (24)	355	1.00	0.870	1.00		mg/L	09/16/15	09/16/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	09/16/15	09/16/15	SM 2540 D
pH (24)	7.23	0.01	0.01	1.00	BV,BU	pH units	N/A	09/10/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	09/21/15	09/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	8.0	2.5	1.2	5.00		mg/L	09/22/15	09/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	12	2.5	1.2	5.00		mg/L	09/11/15	09/12/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
FDHCS120	**15-09-0733-3**	**09/09/15 10:44**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	09/15/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	212	5.00	0.848	1.00		mg/L	N/A	09/17/15	SM 2320B
Bicarbonate (as CaCO3) (24)	212	5.00	0.848	1.00		mg/L	N/A	09/17/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/17/15	SM 2320B
Solids, Total Dissolved (24)	340	1.00	0.870	1.00		mg/L	09/16/15	09/16/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	09/16/15	09/16/15	SM 2540 D
pH (24)	7.25	0.01	0.01	1.00	BV,BU	pH units	N/A	09/10/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	09/21/15	09/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	5.7	2.5	1.2	5.00		mg/L	09/22/15	09/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	11	2.5	1.2	5.00		mg/L	09/11/15	09/12/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS130	**15-09-0733-4**	**09/09/15 09:30**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	09/15/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	186	5.00	0.848	1.00		mg/L	N/A	09/17/15	SM 2320B
Bicarbonate (as CaCO3) (24)	186	5.00	0.848	1.00		mg/L	N/A	09/17/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/17/15	SM 2320B
Solids, Total Dissolved (24)	335	1.00	0.870	1.00		mg/L	09/16/15	09/16/15	SM 2540 C
Solids, Total Suspended (24)	1.6	1.0	0.83	1.00		mg/L	09/16/15	09/16/15	SM 2540 D
pH (24)	7.29	0.01	0.01	1.00	BV,BU	pH units	N/A	09/10/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	09/21/15	09/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	5.5	2.5	1.2	5.00		mg/L	09/22/15	09/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	3.7	2.5	1.2	5.00		mg/L	09/11/15	09/12/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS140	**15-09-0733-5**	**09/09/15 11:12**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	09/15/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	210	5.00	0.848	1.00		mg/L	N/A	09/17/15	SM 2320B
Bicarbonate (as CaCO3) (24)	210	5.00	0.848	1.00		mg/L	N/A	09/17/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/17/15	SM 2320B
Solids, Total Dissolved (24)	325	1.00	0.870	1.00		mg/L	09/16/15	09/16/15	SM 2540 C
Solids, Total Suspended (24)	5.9	1.0	0.83	1.00		mg/L	09/16/15	09/16/15	SM 2540 D
pH (24)	7.54	0.01	0.01	1.00	BV,BU	pH units	N/A	09/10/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	09/21/15	09/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	5.2	2.5	1.2	5.00		mg/L	09/22/15	09/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	5.5	2.5	1.2	5.00		mg/L	09/11/15	09/12/15	SM 5310 B

HCS160	**15-09-0733-6**	**09/09/15 11:39**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	09/15/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	210	5.00	0.848	1.00		mg/L	N/A	09/17/15	SM 2320B
Bicarbonate (as CaCO3) (24)	210	5.00	0.848	1.00		mg/L	N/A	09/17/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/17/15	SM 2320B
Solids, Total Dissolved (24)	365	1.00	0.870	1.00		mg/L	09/16/15	09/16/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	09/16/15	09/16/15	SM 2540 D
pH (24)	7.59	0.01	0.01	1.00	BV,BU	pH units	N/A	09/10/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	09/21/15	09/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	4.1	2.5	1.2	5.00		mg/L	09/22/15	09/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	8.4	2.5	1.2	5.00		mg/L	09/11/15	09/12/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
Method Blank		**N/A**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	09/15/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/17/15	SM 2320B
Bicarbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/17/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/17/15	SM 2320B
Solids, Total Dissolved (24)	ND	1.0	0.87	1.00		mg/L	09/16/15	09/16/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	09/16/15	09/16/15	SM 2540 D
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	09/16/15	09/16/15	SM 2540 D
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	09/21/15	09/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	09/22/15	09/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	ND	0.50	0.24	1.00		mg/L	09/11/15	09/12/15	SM 5310 B

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: EPA 300.0

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-09-0649-1	**Sample**	**Aqueous**	**IC 15**	**N/A**	**09/10/15 14:36**	**150910S01**
15-09-0649-1	**Matrix Spike**	**Aqueous**	**IC 15**	**N/A**	**09/10/15 15:49**	**150910S01**
15-09-0649-1	**Matrix Spike Duplicate**	**Aqueous**	**IC 15**	**N/A**	**09/10/15 16:08**	**150910S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Fluoride	0.2027	2.500	2.351	86	2.372	87	80-120	1	0-20	
Chloride	636.7	50.00	818.2	363	819.6	366	80-120	0	0-20	3
Bromide	6.201	5.000	10.93	95	11.05	97	80-120	1	0-20	
Nitrate (as N)	ND	5.000	4.454	89	4.583	92	80-120	3	0-20	
Sulfate	275.2	50.00	423.7	297	425.4	301	80-120	0	0-20	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-09-0669-1	**Sample**	**Sea Water**	**ACA 1**	**N/A**	**09/15/15 15:53**	**150915S01**
15-09-0669-1	**Matrix Spike**	**Sea Water**	**ACA 1**	**N/A**	**09/15/15 15:53**	**150915S01**
15-09-0669-1	**Matrix Spike Duplicate**	**Sea Water**	**ACA 1**	**N/A**	**09/15/15 15:53**	**150915S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	ND	0.2000	1.432	716	1.420	710	90-110	1	0-25	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	09/10/15
6200 UTSA Blvd., Suite 102	Work Order:	15-09-0733
San Antonio, TX 78249-1618	Preparation:	N/A
	Method:	SM 5310 B
Project: EAA 27122		Page 3 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-09-1130-1	**Sample**	**Aqueous**	**TOC 8**	**09/22/15**	**09/23/15 07:17**	**F0922TOCS2**
15-09-1130-1	**Matrix Spike**	**Aqueous**	**TOC 8**	**09/22/15**	**09/23/15 07:17**	**F0922TOCS2**
15-09-1130-1	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**09/22/15**	**09/23/15 07:17**	**F0922TOCS2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	8.800	50.00	56.00	94	57.50	97	31-145	3	0-23	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	09/10/15
6200 UTSA Blvd., Suite 102	Work Order:	15-09-0733
San Antonio, TX 78249-1618	Preparation:	N/A
	Method:	SM 5310 B
Project: EAA 27122		Page 4 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS110	**Sample**	**Aqueous**	**TOC 8**	**09/11/15**	**09/12/15 01:31**	**F0911DOCS1**
HCS110	**Matrix Spike**	**Aqueous**	**TOC 8**	**09/11/15**	**09/12/15 01:31**	**F0911DOCS1**
HCS110	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**09/11/15**	**09/12/15 01:31**	**F0911DOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	9.400	50.00	50.00	81	58.50	98	31-145	16	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS110	**Sample**	**Aqueous**	**ICP 7300**	**09/11/15**	**09/19/15 23:22**	**150911SA5**
HCS110	**Matrix Spike**	**Aqueous**	**ICP 7300**	**09/11/15**	**09/19/15 23:25**	**150911SA5**
HCS110	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**09/11/15**	**09/19/15 23:29**	**150911SA5**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Calcium	77.89	0.5000	74.74	4X	75.25	4X	77-113	4X	0-11	Q
Magnesium	17.53	0.5000	16.67	4X	16.73	4X	56-140	4X	0-11	Q
Potassium	1.746	5.000	7.108	107	7.289	111	83-131	3	0-7	
Sodium	12.48	5.000	16.90	88	17.28	96	73-127	2	0-9	
Strontium	0.7295	0.5000	1.186	91	1.218	98	81-123	3	0-6	
Silicon	5.315	0.5000	5.645	4X	5.696	4X	24-180	4X	0-15	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3020A Total
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-09-0996-1	**Sample**	**Aqueous**	**ICP/MS 03**	**09/16/15**	**09/21/15 22:41**	**150916SA3**
15-09-0996-1	**Matrix Spike**	**Aqueous**	**ICP/MS 03**	**09/16/15**	**09/21/15 22:23**	**150916SA3**
15-09-0996-1	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 03**	**09/16/15**	**09/21/15 22:27**	**150916SA3**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.1000	0.1019	102	0.1039	104	85-133	2	0-11	
Arsenic	ND	0.1000	0.1105	111	0.1102	110	73-127	0	0-11	
Barium	0.1184	0.1000	0.2322	114	0.2232	105	74-128	4	0-10	
Beryllium	ND	0.1000	0.09766	98	0.09968	100	56-122	2	0-11	
Cadmium	ND	0.1000	0.09744	97	0.09862	99	84-114	1	0-8	
Chromium	0.03929	0.1000	0.1530	114	0.1504	111	73-133	2	0-11	
Copper	ND	0.1000	0.1028	103	0.1023	102	72-108	0	0-10	
Lead	ND	0.1000	0.1143	114	0.1162	116	79-121	2	0-10	
Nickel	0.007515	0.1000	0.1098	102	0.1077	100	68-122	2	0-10	
Selenium	ND	0.1000	0.09072	91	0.09158	92	59-125	1	0-12	
Silver	ND	0.05000	0.05360	107	0.05354	107	68-128	0	0-14	
Thallium	ND	0.1000	0.1092	109	0.1095	109	73-121	0	0-11	
Zinc	ND	0.1000	0.09848	98	0.09586	96	43-145	3	0-39	
Aluminum	ND	0.1000	0.1149	115	0.1097	110	47-161	5	0-24	
Iron	ND	5.100	5.816	114	5.668	111	27-201	3	0-24	
Manganese	0.01195	0.1000	0.1214	109	0.1200	108	72-126	1	0-42	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	09/10/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-0733
San Antonio, TX 78249-1618		Preparation:	EPA 7470A Total
		Method:	EPA 7470A
Project: EAA 27122			Page 7 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-09-0914-1	**Sample**	**Aqueous**	**Mercury 04**	**09/15/15**	**09/15/15 20:13**	**150915SA3**
15-09-0914-1	**Matrix Spike**	**Aqueous**	**Mercury 04**	**09/15/15**	**09/15/15 20:20**	**150915SA3**
15-09-0914-1	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 04**	**09/15/15**	**09/15/15 20:22**	**150915SA3**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.01019	102	0.009988	100	57-141	2	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3020A Total
Method: EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
15-09-0996-1	**Sample**	**Aqueous**	**ICP/MS 03**	**09/16/15 00:00**	**09/21/15 22:41**	**150916SA3**
15-09-0996-1	**PDS**	**Aqueous**	**ICP/MS 03**	**09/16/15 00:00**	**09/21/15 22:30**	**150916SA3**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Antimony	ND	0.1000	0.09812	98	75-125	
Arsenic	ND	0.1000	0.1027	103	75-125	
Barium	0.1184	0.1000	0.2189	101	75-125	
Beryllium	ND	0.1000	0.09334	93	75-125	
Cadmium	ND	0.1000	0.09263	93	75-125	
Chromium	0.03929	0.1000	0.1428	103	75-125	
Copper	ND	0.1000	0.09691	97	75-125	
Lead	ND	0.1000	0.1092	109	75-125	
Nickel	0.007515	0.1000	0.1032	96	75-125	
Selenium	ND	0.1000	0.08516	85	75-125	
Silver	ND	0.05000	0.04834	97	75-125	
Thallium	ND	0.1000	0.1033	103	75-125	
Zinc	ND	0.1000	0.08546	85	75-125	
Aluminum	ND	0.1000	0.1046	105	75-125	
Iron	ND	5.100	5.302	104	75-125	
Manganese	0.01195	0.1000	0.1129	101	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-09-1300-2	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**09/17/15 14:00**	**F0917ALKD2**
15-09-1300-2	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**09/17/15 14:00**	**F0917ALKD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	105.0	106.0	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-09-1300-2	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**09/17/15 14:00**	**F0917HCOD2**
15-09-1300-2	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**09/17/15 14:00**	**F0917HCOD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Bicarbonate (as CaCO3)	105.0	106.0	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-09-1300-2	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**09/17/15 14:00**	**F0917CO3D2**
15-09-1300-2	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**09/17/15 14:00**	**F0917CO3D2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Carbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-09-0675-1	**Sample**	**Aqueous**	**N/A**	**09/16/15 00:00**	**09/16/15 20:00**	**F0916TDSD6**
15-09-0675-1	**Sample Duplicate**	**Aqueous**	**N/A**	**09/16/15 00:00**	**09/16/15 20:00**	**F0916TDSD6**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	685.0	725.0	6	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HCS110	**Sample**	**Aqueous**	**N/A**	**09/16/15 00:00**	**09/16/15 18:00**	**F0916TSSD2**
HCS110	**Sample Duplicate**	**Aqueous**	**N/A**	**09/16/15 00:00**	**09/16/15 18:00**	**F0916TSSD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Suspended	20.90	22.30	6	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: SM 4500 H+ B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-09-0680-1	**Sample**	**Aqueous**	**PH 1**	**N/A**	**09/10/15 19:57**	**F0910PHD5**
15-09-0680-1	**Sample Duplicate**	**Aqueous**	**PH 1**	**N/A**	**09/10/15 19:57**	**F0910PHD5**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	5.760	5.770	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: SM 4500 N Org B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-09-1091-2	**Sample**	**Aqueous**	**BUR05**	**09/21/15 00:00**	**09/21/15 19:34**	**F0921TKND2**
15-09-1091-2	**Sample Duplicate**	**Aqueous**	**BUR05**	**09/21/15 00:00**	**09/21/15 19:34**	**F0921TKND2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Total Kjeldahl Nitrogen	2.520	2.380	6	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	09/10/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-0733
San Antonio, TX 78249-1618		Preparation:	N/A
		Method:	EPA 300.0
Project: EAA 27122			Page 1 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-906-6058	**LCS**	**Aqueous**	**IC 15**	**N/A**	**09/10/15 12:52**	**150910L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Fluoride	2.500	2.485	99	90-110	
Chloride	50.00	48.38	97	90-110	
Bromide	5.000	4.928	99	90-110	
Nitrate (as N)	5.000	4.912	98	90-110	
Sulfate	50.00	48.63	97	90-110	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-739-116	**LCS**	**Aqueous**	**ACA 1**	**N/A**	**09/15/15 15:53**	**150915L01**
099-12-739-116	**LCSD**	**Aqueous**	**ACA 1**	**N/A**	**09/15/15 15:53**	**150915L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.2000	0.1967	98	0.2032	102	90-110	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-859-797	**LCS**	**Aqueous**	**PH1/BUR03**	**N/A**	**09/17/15 14:00**	**F0917ALKB2**
099-15-859-797	**LCSD**	**Aqueous**	**PH1/BUR03**	**N/A**	**09/17/15 14:00**	**F0917ALKB2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	100.0	99.00	99	99.00	99	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-180-4750	**LCS**	**Aqueous**	**N/A**	**09/16/15**	**09/16/15 20:00**	**F0916TDSL6**
099-12-180-4750	**LCSD**	**Aqueous**	**N/A**	**09/16/15**	**09/16/15 20:00**	**F0916TDSL6**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100.0	105.0	105	110.0	110	80-120	5	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-010-7314	**LCS**	**Aqueous**	**N/A**	**09/16/15**	**09/16/15 18:00**	**F0916TSSL2**
099-09-010-7314	**LCSD**	**Aqueous**	**N/A**	**09/16/15**	**09/16/15 18:00**	**F0916TSSL2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Suspended	100.0	86.00	86	89.00	89	80-120	3	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-010-7321	**LCS**	**Aqueous**	**N/A**	**09/16/15**	**09/16/15 18:00**	**F0916TSSL2**
099-09-010-7321	**LCSD**	**Aqueous**	**N/A**	**09/16/15**	**09/16/15 18:00**	**F0916TSSL2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Suspended	100.0	86.00	86	89.00	89	80-120	3	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-5756	**LCS**	**Aqueous**	**TOC 8**	**09/22/15**	**09/23/15 07:17**	**F0922TOCL2**
099-05-097-5756	**LCSD**	**Aqueous**	**TOC 8**	**09/22/15**	**09/23/15 07:17**	**F0922TOCL2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	10.00	10.10	101	10.40	104	80-120	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-115-1455	**LCS**	**Aqueous**	**TOC 8**	**09/11/15**	**09/12/15 01:31**	**F0911DOCL1**
099-05-115-1455	**LCSD**	**Aqueous**	**TOC 8**	**09/11/15**	**09/12/15 01:31**	**F0911DOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	10.00	10.20	102	10.60	106	80-120	4	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	09/10/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-0733
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B
Project: EAA 27122			Page 9 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-683-1396	**LCS**	**Aqueous**	**ICP 7300**	**09/11/15**	**09/22/15 19:12**	**150911LA5F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Calcium	0.5000	0.5386	108	80-120	
Magnesium	0.5000	0.4963	99	80-120	
Potassium	5.000	5.550	111	80-120	
Sodium	5.000	5.873	117	80-120	
Strontium	0.5000	0.5977	120	80-120	
Silicon	0.5000	0.5120	102	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	09/10/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-0733
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: EAA 27122			Page 10 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-693-912	**LCS**	**Aqueous**	**ICP/MS 03**	**09/16/15**	**09/21/15 22:20**	**150916LA3F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.1000	0.09960	100	80-120	73-127	
Arsenic	0.1000	0.1031	103	80-120	73-127	
Barium	0.1000	0.1002	100	80-120	73-127	
Beryllium	0.1000	0.09791	98	80-120	73-127	
Cadmium	0.1000	0.1012	101	80-120	73-127	
Chromium	0.1000	0.1059	106	80-120	73-127	
Copper	0.1000	0.1010	101	80-120	73-127	
Lead	0.1000	0.1049	105	80-120	73-127	
Nickel	0.1000	0.09570	96	80-120	73-127	
Selenium	0.1000	0.1041	104	80-120	73-127	
Silver	0.05000	0.05052	101	80-120	73-127	
Thallium	0.1000	0.09719	97	80-120	73-127	
Zinc	0.1000	0.1005	100	80-120	73-127	
Aluminum	0.1000	0.1055	106	80-120	73-127	
Iron	5.100	4.996	98	80-120	73-127	
Manganese	0.1000	0.1009	101	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	09/10/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-0733
San Antonio, TX 78249-1618		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A
Project: EAA 27122			Page 11 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-763-614	**LCS**	**Aqueous**	**Mercury 04**	**09/15/15**	**09/15/15 20:11**	**150915LA3F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.01027	103	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8081A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-840	**LCS**	**Aqueous**	**GC 44**	**09/19/15**	**09/22/15 13:34**	**150911L04**
099-12-529-840	**LCSD**	**Aqueous**	**GC 44**	**09/19/15**	**09/22/15 13:48**	**150911L04**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.4451	89	0.4246	85	50-135	36-149	5	0-25	
Gamma-BHC	0.5000	0.4727	95	0.4481	90	50-135	36-149	5	0-25	
Beta-BHC	0.5000	0.4224	84	0.4299	86	50-135	36-149	2	0-25	
Heptachlor	0.5000	0.4651	93	0.4583	92	50-135	36-149	1	0-25	
Delta-BHC	0.5000	0.4682	94	0.4324	86	50-135	36-149	8	0-25	
Aldrin	0.5000	0.4277	86	0.4393	88	50-135	36-149	3	0-25	
Heptachlor Epoxide	0.5000	0.4342	87	0.4539	91	50-135	36-149	4	0-25	
Endosulfan I	0.5000	0.4562	91	0.4576	92	50-135	36-149	0	0-25	
Dieldrin	0.5000	0.4759	95	0.4739	95	50-135	36-149	0	0-25	
4,4'-DDE	0.5000	0.4651	93	0.4617	92	50-135	36-149	1	0-25	
Endrin	0.5000	0.5162	103	0.4822	96	50-135	36-149	7	0-25	
Endrin Aldehyde	0.5000	0.4893	98	0.4487	90	50-135	36-149	9	0-25	
4,4'-DDD	0.5000	0.4815	96	0.4660	93	50-135	36-149	3	0-25	
Endosulfan II	0.5000	0.4956	99	0.4746	95	50-135	36-149	4	0-25	
4,4'-DDT	0.5000	0.5059	101	0.4420	88	50-135	36-149	13	0-25	
Endosulfan Sulfate	0.5000	0.4915	98	0.4503	90	50-135	36-149	9	0-25	
Methoxychlor	0.5000	0.5191	104	0.4463	89	50-135	36-149	15	0-25	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8082

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1086	**LCS**	**Aqueous**	**GC 31**	**09/11/15**	**09/14/15 18:47**	**150911L05**
099-12-533-1086	**LCSD**	**Aqueous**	**GC 31**	**09/11/15**	**09/14/15 19:06**	**150911L05**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	1.563	78	1.903	95	50-135	20	0-25	
Aroclor-1260	2.000	1.588	79	1.738	87	50-135	9	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8141A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-963-111	**LCS**	**Aqueous**	**GC 35**	**09/11/15**	**09/17/15 19:12**	**150911L03**
099-15-963-111	**LCSD**	**Aqueous**	**GC 35**	**09/11/15**	**09/17/15 19:58**	**150911L03**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	0.04000	0.03912	98	0.04060	102	30-130	13-147	4	0-30	
Bolstar	0.04000	0.03662	92	0.03780	94	30-130	13-147	3	0-30	
Chlorpyrifos	0.04000	0.03560	89	0.03692	92	30-130	13-147	4	0-30	
Coumaphos	0.04000	0.03518	88	0.03616	90	30-130	13-147	3	0-30	
Diazinon	0.04000	0.03660	92	0.03782	95	30-130	13-147	3	0-30	
Disulfoton	0.04000	0.03686	92	0.03767	94	30-130	13-147	2	0-30	
Ethoprop	0.04000	0.04376	109	0.04544	114	30-130	13-147	4	0-30	
Fensulfothion	0.04000	0.03714	93	0.03823	96	30-130	13-147	3	0-30	
Fenthion	0.04000	0.03803	95	0.03950	99	30-130	13-147	4	0-30	
Merphos	0.04000	0.07192	180	0.07487	187	30-130	13-147	4	0-30	X
Methyl Parathion	0.04000	0.03678	92	0.03844	96	30-130	13-147	4	0-30	
Phorate	0.04000	0.04420	110	0.04605	115	30-130	13-147	4	0-30	
Ronnel	0.04000	0.03562	89	0.03720	93	30-130	13-147	4	0-30	
Stirophos	0.04000	0.03723	93	0.03876	97	30-130	13-147	4	0-30	
Tokuthion	0.04000	0.03568	89	0.03698	92	30-130	13-147	4	0-30	
Trichloronate	0.04000	0.03803	95	0.03932	98	30-130	13-147	3	0-30	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 8151A
Method: EPA 8151A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-034-659	**LCS**	**Aqueous**	**GC 40**	**09/15/15**	**09/21/15 13:43**	**150915L16**
095-01-034-659	**LCSD**	**Aqueous**	**GC 40**	**09/15/15**	**09/21/15 14:07**	**150915L16**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	20.00	8.370	42	9.565	48	30-130	13	0-30	
2,4,5-T	2.000	1.090	54	1.255	63	30-130	14	0-30	
2,4-DB	20.00	7.540	38	8.855	44	30-130	16	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 3510C
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-4103	**LCS**	**Aqueous**	**GC/MS CCC**	**09/11/15**	**09/12/15 13:28**	**150911L06**
095-01-003-4103	**LCSD**	**Aqueous**	**GC/MS CCC**	**09/11/15**	**09/12/15 13:46**	**150911L06**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	200.0	185.6	93	181.6	91	61-120	51-130	2	0-20	
Acenaphthylene	200.0	180.6	90	177.8	89	55-120	44-131	2	0-20	
Butyl Benzyl Phthalate	200.0	173.4	87	171.2	86	56-122	45-133	1	0-20	
4-Chloro-3-Methylphenol	200.0	189.3	95	182.9	91	52-120	41-131	3	0-20	
2-Chlorophenol	200.0	177.3	89	167.6	84	47-120	35-132	6	0-20	
1,4-Dichlorobenzene	200.0	160.3	80	155.0	78	36-120	22-134	3	0-20	
Dimethyl Phthalate	200.0	195.1	98	194.5	97	60-120	50-130	0	0-20	
2,4-Dinitrotoluene	200.0	212.6	106	211.2	106	61-121	51-131	1	0-20	
Fluorene	200.0	194.9	97	193.3	97	67-120	58-129	1	0-20	
N-Nitroso-di-n-propylamine	200.0	173.5	87	160.8	80	39-123	25-137	8	0-20	
Naphthalene	200.0	174.4	87	164.2	82	54-120	43-131	6	0-20	
4-Nitrophenol	200.0	81.69	41	84.62	42	14-120	0-138	4	0-20	
Pentachlorophenol	200.0	180.4	90	182.5	91	31-127	15-143	1	0-20	
Phenol	200.0	78.24	39	75.35	38	17-120	0-137	4	0-20	
Pyrene	200.0	181.8	91	178.9	89	58-124	47-135	2	0-20	
1,2,4-Trichlorobenzene	200.0	185.6	93	174.3	87	49-120	37-132	6	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/10/15
Work Order: 15-09-0733
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-18207	**LCS**	**Aqueous**	**GC/MS UU**	**09/19/15**	**09/19/15 10:33**	**150919L005**
099-14-001-18207	**LCSD**	**Aqueous**	**GC/MS UU**	**09/19/15**	**09/19/15 11:02**	**150919L005**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	50.49	101	52.88	106	80-120	73-127	5	0-20	
Carbon Tetrachloride	50.00	50.48	101	54.72	109	67-139	55-151	8	0-20	
Chlorobenzene	50.00	50.23	100	51.12	102	78-120	71-127	2	0-20	
1,2-Dibromoethane	50.00	49.71	99	50.43	101	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	51.16	102	52.27	105	63-129	52-140	2	0-20	
1,2-Dichloroethane	50.00	51.70	103	51.52	103	70-130	60-140	0	0-20	
1,1-Dichloroethene	50.00	46.27	93	51.12	102	66-126	56-136	10	0-20	
Ethylbenzene	50.00	53.51	107	55.83	112	80-123	73-130	4	0-20	
Toluene	50.00	49.48	99	52.24	104	80-120	73-127	5	0-20	
Trichloroethene	50.00	47.14	94	49.53	99	80-122	73-129	5	0-20	
Vinyl Chloride	50.00	46.71	93	51.15	102	70-130	60-140	9	0-20	
p/m-Xylene	100.0	108.7	109	112.1	112	75-123	67-131	3	0-20	
o-Xylene	50.00	53.71	107	54.92	110	74-122	66-130	2	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	47.96	96	48.23	96	69-129	59-139	1	0-20	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-09-0733 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 300.0	N/A	1027	IC 15	1
EPA 365.1	N/A	650	ACA 1	1
EPA 6010B	EPA 3005A Filt.	935	ICP 7300	1
EPA 6020	EPA 3005A Filt.	598	ICP/MS 03	1
EPA 7470A	EPA 7470A Filt.	915	Mercury 04	1
EPA 8081A	EPA 3510C	669	GC 44	1
EPA 8082	EPA 3510C	944	GC 58	1
EPA 8141A	EPA 3510C	960	GC 35	1
EPA 8151A	EPA 8151A	944	GC 40	1
EPA 8260B	EPA 5030C	823	GC/MS UU	2
EPA 8270C	EPA 3510C	923	GC/MS CCC	1
SM 2320B	N/A	650	PH1/BUR03	1
SM 2540 C	N/A	1009	N/A	1
SM 2540 D	N/A	1009	N/A	1
SM 4500 H+ B	N/A	688	PH 1	1
SM 4500 N Org B	N/A	685	BUR05	1
SM 5310 B	N/A	735	TOC 8	1

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Glossary of Terms and Qualifiers

Work Order: 15-09-0733 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **15-09-0733**

DATE: 9/9/15

PAGE: 1 OF 1

LABORATORY CLIENT: SWCA Environmental Consultants

ADDRESS: 6200 UTSA Blvd. Suite 102

CITY: San Antonio STATE: TX ZIP: 78249-1618

TEL: 210.877.2847 E-MAIL: PPearce@swca.com

CLIENT PROJECT NAME / NUMBER: EAA 27122

P.O. NO.: 27122.02.01

PROJECT CONTACT: Philip Pearce

SAMPLER(S): (PRINT) Jennifer Moreland and Brittany Rios

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 10 Days (standard)

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Samples for EPA 6010B, EPA 6020, and EPA 7470 Metals are field filtered

EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn

Please also analyze each sample for pH

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 6010B (Si, Ca, Mg, K, Na, Sr)	EPA 6020 (See Comments)	EPA 7470A Mercury	EPA 1694 (M) Caffeine	EPA 8081A Organochlorine Pesticides	EPA 8082 PCB Aroclors	EPA 8141A Organophosphorus Pest	EPA 8151A Chlorinated Herbicides	EPA 8270C Semi-Volatile Organics	EPA 8260B Volatile Organics	EPA 300 Anions (F, Cl, Br, NO3, SO4)	EPA 365.1 Total Phosphorus	SM 2320B Alkalinity: Total, Bicarb, Carb	SM 5310B TOC	SM 5310B DOC	SM 5310B Solids, Total Dissolved	SM 4500 N Org B TKN	EPA 160.2 TSS
1	HCS110	9/9/2015	10:11	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	HCS120	9/9/2015	10:44	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	FDHCS120	9/9/2015	10:44	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	HCS130	9/9/2015	9:30	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	HCS140	9/9/2015	11:12	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	HCS160	9/9/2015	11:39	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	TB11	9/9/2015	NA	NPW	1													X								

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 9/9/15	Time: 17:50
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 9/10/15	Time: 1100

06/02/14 Revision

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ORIGIN ID:SATA (210) 877-2847
SWCA INC

6200 UTSA BLVD STE 102

SAN ANTONIO, TX 782491618
UNITED STATES US

SHIP DATE: 09SEP15
ACTWGT: 62.7 LB
CAD: /OFFC1601
DIMS: 25x14x15 IN

BILL SENDER

TO

CALSCIENCE
7440 LINCOLN WAY

GARDEN GROVE CA 92841
(714) 845-5494 REF:
INV:
PO: DEPT:

FedEx Express

1 of 6
TRK# 0200 8088 3106 5126
MASTER
A7 APVA
THU - 10 SEP AA
STANDARD OVERNIGHT
AHS
92841
CA-US SNA

2 of 6
MPS# 0681 7813 0433 7789
Mstr# 8088 3106 5126
0200
A7 APVA
THU - 10 SEP AA
STANDARD OVERNIGHT
AHS
92841
CA-US SNA

3 of 6
MPS# 0681 7813 0433 7790
Mstr# 8088 3106 5126
0200
A7 APVA
THU - 10 SEP AA
STANDARD OVERNIGHT
AHS
92841
CA-US SNA

4 of 6
MPS# 0681 7813 0433 7804
Mstr# 8088 3106 5126
0200
A7 APVA
THU - 10 SEP AA
STANDARD OVERNIGHT
AHS
92841
CA-US SNA

5 of 6
MPS# 0681 7813 0433 7815
Mstr# 8088 3106 5126
0200
A7 APVA
THU - 10 SEP AA
STANDARD OVERNIGHT
AHS
92841
CA-US SNA

6 of 6
MPS# 0681 7813 0433 7826
Mstr# 8088 3106 5126
0200
A7 APVA
THU - 10 SEP AA
STANDARD OVERNIGHT
AHS
92841
CA-US SNA

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WORK ORDER NUMBER: 15-09- 0733

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 6

CLIENT: SWCA

DATE: 09 / 10 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 2.7 °C (w/ CF): 2.5 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1013

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐ 9/10 DR HF
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: 2 (**Trip Blank Lot Number:** 150121E)

Aqueous: ☐ VOA ☑ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: BB

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WORK ORDER NUMBER: 15-09- 0733

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 6

CLIENT: SWCA

DATE: 09 / 10 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 2.4 °C (w/ CF): 2.2 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 1S

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 1S

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1013

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑ (no) 9/10/15	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOAna$_2$ ☐ 100PJ ☐ 100PJna$_2$ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☑ 250CGBs ~~☑ 250PB~~ LC 9/10/15 ☑ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☑ 1AGB ☐ 1AGBna$_2$ ☑ 1AGBs ☐ 1PB ☐ 1PBna ☑ 2.5 gal. cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 1013

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 659

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WORK ORDER NUMBER: 15-09- 0733

SAMPLE RECEIPT CHECKLIST

COOLER 3 OF 6

CLIENT: SWCA

DATE: 09 / 10 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 2.6 °C (w/ CF): 2.4 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 1S

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 1S

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1of3

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☑ 9/10/15
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☑ 250CGBs ☐ 250PB ☑ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☑ 1AGB ☐ 1AGBna_2 ☑ 1AGBs ☐ 1PB ☐ 1PBna ☑ 2.5 gal. Cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1of3

Reviewed by: 6B9

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WORK ORDER NUMBER: 15-09- 0733

SAMPLE RECEIPT CHECKLIST

COOLER 4 OF 6

CLIENT: SWCA

DATE: 09 / 10 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 2.2 °C (w/ CF): 2.0 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 1S

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 1S

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1013

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐ pH 9/10/15
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☑ 250CGBs ☐ 250PB ☑ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☑ 1AGB ☐ 1AGBna_2 ☑ 1AGBs ☐ 1PB ☐ 1PBna ☑ 2.5 gal. cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: 659

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WORK ORDER NUMBER: 15-09- 0733

SAMPLE RECEIPT CHECKLIST

COOLER 5 OF 6

CLIENT: SWCA

DATE: 09 / 10 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 3.1 °C (w/ CF): 2.9 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1013

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			9/10/15 @
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOAna$_2$ ☐ 100PJ ☐ 100PJna$_2$ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☑ 250CGBs (2) ☐ 250PB ☑ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☑ 1AGB ☐ 1AGBna$_2$ ☑ 1AGBs ☐ 1PB ☐ 1PBna ☑ 2.5 gal. cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: 679

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WORK ORDER NUMBER: 15-09- 0713

SAMPLE RECEIPT CHECKLIST

COOLER 6 OF 6

CLIENT: SWCA

DATE: 09 / 10 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 2.0 °C (w/ CF): 1.8 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: LS

CUSTODY SEAL:

Cooler	☑ Present and Intact	☐ Present but Not Intact	☐ Not Present	☐ N/A	Checked by: LS
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: LCJ

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 9/10/15			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☒
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOAna$_2$ ☐ 100PJ ☐ 100PJna$_2$ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☑ 250CGBs ☐ 250PB ☑ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☑ 1AGB ☐ 1AGBna$_2$ ☑ 1AGBs ☐ 1PB ☐ 1PBna ☑ 25gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: LCJ

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: LS

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Subcontractor Analysis Report

Work Order: 15-09-0733 Page 1 of 1

One or more samples in this work order have tests that were subcontracted. The subcontract report(s) follows.

For subcontracted tests, please reference the laboratory information noted below.

1. ALS - Columbia Analytical Services, Inc. - Kelso,WA CA ELAP 2286, NELAP WA100010
   Method 1694 Caffeine

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ALS Environmental
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September 30, 2015

Analytical Report for Service Request No: K1510108

Donald Burley
Calscience Environmental Laboratories, Incorporated
7440 Lincoln Way
Garden Grove, CA 92841

RE: 15-09-0733

Dear Donald,

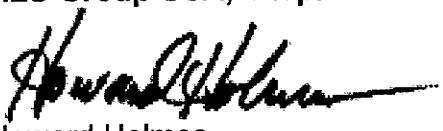
Enclosed are the results of the sample(s) submitted to our laboratory September 12, 2015
For your reference, these analyses have been assigned our service request number **K1510108.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3364. You may also contact me via email at howard.holmes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental



Howard Holmes
Project Manager

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www.alsglobal.com

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

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ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

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ALS Environmental

Case Narrative

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ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577- 7222 Fax (360)636- 1068
www.alsglobal.com

ALS ENVIRONMENTAL

Client:	Eurofins Calscience Environmental Laboratory	**Service Request No.:**	K1510108
Project:	15-09-0733	**Date Received:**	09/12/15
Sample Matrix:	Water		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Six water samples were received for analysis at ALS Environmental on 09/12/15. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Steroids and Endocrine Disrupting Compounds by Method 1694

Elevated Detection Limits:
The detection limit for Caffeine for all samples was elevated due to less than optimal sample volume available for analysis.

No other anomalies associated with the analysis of these samples were observed.

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Approved by_____

ALS Environmental

Chain of Custody

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K150108

To: ALS - Kelso

CHAIN OF CUSTODY RECORD

DATE: 09/11/15

PAGE: 1 OF 1

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

LABORATORY CLIENT: Eurofins Calscience, Inc.	CLIENT PROJECT NAME / NUMBER: 15-09-0733
ADDRESS: 7440 Lincoln Way	PO NO.: 15-09-0733
CITY: Garden Grove STATE: CA ZIP: 92841-1427	PROJECT CONTACT: Don Burley
TEL: 714-895-5494 E-MAIL: DonaldBurley@eurofinsUS.com	SAMPLER(S): (PRINT) N/A

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
SAME DAY 24 HR 48 HR 72 HR 5 DAYS X STANDARD

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 1694 Caffeine
	HCS110	09/09/15	10:11	W	1	X			X
	HCS120	09/09/15	10:44	W	1	X			X
	FDHCS120	09/09/15	10:44	W	1	X			X
	HCS130	09/09/15	9:30	W	1	X			X
	HCS140	09/09/15	11:12	W	1	X			X
	HCS160	09/09/15	11:39	W	1	X			X

Relinquished by: (Signature) ECI	Received by: (Signature/Affiliation) FedEx AB #774492880491	Date: 09/11/15	Time: 1300
Relinquished by: (Signature)	Received by: (Signature/Affiliation) ALS 9/12/15 1000	Date:	Time:

06/02/14 Revision

PC H2

Cooler Receipt and Preservation Form

Client / Project: CARSONITE Service Request K15 10108

Received: 9/12/15 Opened: 9/12/15 By: L Unloaded: 9/12/15 By: L

1. Samples were received via? *Mail* (*FedEx*) *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1 FRONT
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID (NA)	Tracking Number NA	Filed
0.4	0.7	0.6	0.3	0.3	360		7744 9288 0491	

4. Packing material: *Inserts* *Baggies* (*Bubble Wrap*) *Gel Packs* (*Wet Ice*) *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA (Y) N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA (Y) N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA (Y) N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
12. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page ____ *of* ____

ALS Environmental

Steroids and Endocrine Disrupting Compounds

Return to Contents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Eurofins Calscience Environmental Laboratory	**Service Request:**	K1510108
Project:	15-09-0733	**Date Collected:**	09/09/15 10:11
Sample Matrix:	Water	**Date Received:**	09/12/15 10:00
Sample Name:	HCS110	**Units:**	ng/L
Lab Code:	K1510108-001	**Basis:**	NA

Steroids and Endocrine Disrupting Compounds

Analysis Method: 1694
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Caffeine	**41**	4.0	1	09/22/15 02:23	9/16/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Caffeine-trimethyl-13C3	76	46 - 161	09/22/15 02:23	

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ALS Group USA, Corp.
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Analytical Report

Client:	Eurofins Calscience Environmental Laboratory	**Service Request:**	K1510108
Project:	15-09-0733	**Date Collected:**	09/09/15 10:44
Sample Matrix:	Water	**Date Received:**	09/12/15 10:00
Sample Name:	HCS120	**Units:**	ng/L
Lab Code:	K1510108-002	**Basis:**	NA

Steroids and Endocrine Disrupting Compounds

Analysis Method: 1694
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Caffeine	ND U	4.0	1	09/22/15 02:44	9/16/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Caffeine-trimethyl-13C3	85	46 - 161	09/22/15 02:44	

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Analytical Report

Client:	Eurofins Calscience Environmental Laboratory	**Service Request:**	K1510108
Project:	15-09-0733	**Date Collected:**	09/09/15 10:44
Sample Matrix:	Water	**Date Received:**	09/12/15 10:00
Sample Name:	FDHCS120	**Units:**	ng/L
Lab Code:	K1510108-003	**Basis:**	NA

Steroids and Endocrine Disrupting Compounds

Analysis Method: 1694
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Caffeine	**16**	4.0	1	09/22/15 03:05	9/16/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Caffeine-trimethyl-13C3	96	46 - 161	09/22/15 03:05	

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Analytical Report

Client:	Eurofins Calscience Environmental Laboratory	**Service Request:**	K1510108
Project:	15-09-0733	**Date Collected:**	09/09/15 09:30
Sample Matrix:	Water	**Date Received:**	09/12/15 10:00
Sample Name:	HCS130	**Units:**	ng/L
Lab Code:	K1510108-004	**Basis:**	NA

Steroids and Endocrine Disrupting Compounds

Analysis Method: 1694
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Caffeine	ND U	4.0	1	09/22/15 03:25	9/16/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Caffeine-trimethyl-13C3	92	46 - 161	09/22/15 03:25	

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ALS Group USA, Corp.
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Analytical Report

Client:	Eurofins Calscience Environmental Laboratory	**Service Request:**	K1510108
Project:	15-09-0733	**Date Collected:**	09/09/15 11:12
Sample Matrix:	Water	**Date Received:**	09/12/15 10:00
Sample Name:	HCS140	**Units:**	ng/L
Lab Code:	K1510108-005	**Basis:**	NA

Steroids and Endocrine Disrupting Compounds

Analysis Method: 1694
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Caffeine	ND U	4.0	1	09/22/15 03:46	9/16/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Caffeine-trimethyl-13C3	115	46 - 161	09/22/15 03:46	

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Analytical Report

Client:	Eurofins Calscience Environmental Laboratory	**Service Request:**	K1510108
Project:	15-09-0733	**Date Collected:**	09/09/15 11:39
Sample Matrix:	Water	**Date Received:**	09/12/15 10:00
Sample Name:	HCS160	**Units:**	ng/L
Lab Code:	K1510108-006	**Basis:**	NA

Steroids and Endocrine Disrupting Compounds

Analysis Method: 1694
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Caffeine	ND U	4.0	1	09/22/15 04:07	9/16/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Caffeine-trimethyl-13C3	94	46 - 161	09/22/15 04:07	

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Analytical Report

Client:	Eurofins Calscience Environmental Laboratory	**Service Request:**	K1510108
Project:	15-09-0733	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KQ1510310-03	**Basis:**	NA

Steroids and Endocrine Disrupting Compounds

Analysis Method: 1694
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Caffeine	ND U	2.0	1	09/21/15 14:32	9/16/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Caffeine-trimethyl-13C3	93	46 - 161	09/21/15 14:32	

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ALS Group USA, Corp.
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QA/QC Report

Client: Eurofins Calscience Environmental Laboratory **Service Request:** K1510108
Project: 15-09-0733
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Steroids and Endocrine Disrupting Compounds

Analysis Method: 1694
Extraction Method: Method

		Caffeine-trimethyl-13C3
Sample Name	**Lab Code**	**46 - 161**
HCS110	K1510108-001	76
HCS120	K1510108-002	85
FDHCS120	K1510108-003	96
HCS130	K1510108-004	92
HCS140	K1510108-005	115
HCS160	K1510108-006	94
Lab Control Sample	KQ1510310-01	94
Duplicate Lab Control Sample	KQ1510310-02	99
Method Blank	KQ1510310-03	93

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ALS Group USA, Corp.
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QA/QC Report

Client:	Eurofins Calscience Environmental Laboratory	**Service Request:**	K1510108
Project:	15-09-0733	**Date Analyzed:**	09/21/15
Sample Matrix:	Water	**Date Extracted:**	09/16/15

Duplicate Lab Control Sample Summary
Steroids and Endocrine Disrupting Compounds

Analysis Method:	1694	**Units:**	ng/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	463091

	Lab Control Sample KQ1510310-01			Duplicate Lab Control Sample KQ1510310-02					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Caffeine	99.9	100	100	97.1	100	97	50-140	3	30

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P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 110
Sample Number: AA97178
Sample Matrix: Non Potable Water

Collection Date/Time: 9/17/15 10:53
Receipt Date/Time: 9/17/15 15:27

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAP	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97178-A	E. coli	√	SM 9223B-2004	45	MPN/100 mL		1	44302	9/17/15	16:37	HH/PAL
AA97178-A	E. Coli Holding Time - IDEXX Colilert		NA	5.73	hours		0.00	44301	9/17/15	16:37	HH/PAL

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44302

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

9/22/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 120
Sample Number: AA97179
Sample Matrix: Non Potable Water

Collection Date/Time: 9/17/15 11:30
Receipt Date/Time: 9/17/15 15:27

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAP	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97179-A	E. coli	√	SM 9223B-2004	20	MPN/100 mL		1	44302	9/17/15	16:37	HH/PAL
AA97179-A	E. Coli Holding Time - IDEXX Colilert		NA	5.12	hours		0.00	44301	9/17/15	16:37	HH/PAL

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44302

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

9/22/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 130
Sample Number: AA97180
Sample Matrix: Non Potable Water

Collection Date/Time: 9/17/15 11:57
Receipt Date/Time: 9/17/15 15:27

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAP	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97180-A	E. coli	√	SM 9223B-2004	30	MPN/100 mL		1	44302	9/17/15	16:37	HH/PAL
AA97180-A	E. Coli Holding Time - IDEXX Colilert		NA	4.67	hours		0.00	44301	9/17/15	16:37	HH/PAL

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44302

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

9/22/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 140
Sample Number: AA97181
Sample Matrix: Non Potable Water

Collection Date/Time: 9/17/15 12:24
Receipt Date/Time: 9/17/15 15:27

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: No air space per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAP	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97181-A	E. coli	√	SM 9223B-2004	37	MPN/100 mL		1	44302	9/17/15	16:37	HH/PAL
AA97181-A	E. Coli Holding Time - IDEXX Colilert		NA	4.22	hours		0.00	44301	9/17/15	16:37	HH/PAL

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44302

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

9/22/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 150
Sample Number: AA97182
Sample Matrix: Non Potable Water

Collection Date/Time: 9/17/15 12:51
Receipt Date/Time: 9/17/15 15:27

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAP	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97182-A	E. coli	√	SM 9223B-2004	22	MPN/100 mL		1	44302	9/17/15	16:37	HH/PAL
AA97182-A	E. Coli Holding Time - IDEXX Colilert		NA	3.77	hours		0.00	44301	9/17/15	16:37	HH/PAL

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44302

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

9/22/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 160
Sample Number: AA97183
Sample Matrix: Non Potable Water

Collection Date/Time: 9/17/15 13:18
Receipt Date/Time: 9/17/15 15:27

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAP	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97183-A	E. coli	√	SM 9223B-2004	28	MPN/100 mL		1	44302	9/17/15	16:37	HH/PAL
AA97183-A	E. Coli Holding Time - IDEXX Colilert		NA	3.32	hours		0.00	44301	9/17/15	16:37	HH/PAL

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44302

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

9/22/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 170
Sample Number: AA97184
Sample Matrix: Non Potable Water

Collection Date/Time: 9/17/15 13:47
Receipt Date/Time: 9/17/15 15:27

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAP	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97184-A	E. coli	√	SM 9223B-2004	28	MPN/100 mL		1	44302	9/17/15	16:37	HH/PAL
AA97184-A	E. Coli Holding Time - IDEXX Colilert		NA	2.83	hours		0.00	44301	9/17/15	16:37	HH/PAL

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44302

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

9/22/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: FDHSM 110
Sample Number: AA97185
Sample Matrix: Non Potable Water

Collection Date/Time: 9/17/15 10:53
Receipt Date/Time: 9/17/15 15:27

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAP	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97185-A	E. coli	√	SM 9223B-2004	75	MPN/100 mL		1	44302	9/17/15	16:37	HH/PAL
AA97185-A	E. Coli Holding Time - IDEXX Colilert		NA	5.73	hours		0.00	44301	9/17/15	16:37	HH/PAL

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44302

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

9/22/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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WORK ORDER NUMBER: 15-09-1440

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: SWCA Environmental Consultants

Client Project Name: EAA 27122

Attention: Philip Pearce
6200 UTSA Blvd.
Suite 102
San Antonio, TX 78249-1618

Approved for release on 10/20/2015 by:
Don Burley
Project Manager

ResultLink

Email your PM

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Client Project Name: EAA 27122
Work Order Number: 15-09-1440

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Work Order Narrative

Work Order: 15-09-1440 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/18/15. They were assigned to Work Order 15-09-1440.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	SWCA Environmental Consultants	Work Order:	15-09-1440
	6200 UTSA Blvd., Suite 102	Project Name:	EAA 27122
	San Antonio, TX 78249-1618	PO Number:	27122.02.06
		Date/Time Received:	09/18/15 10:00
		Number of Containers:	73
Attn:	Philip Pearce		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
HSM110	15-09-1440-1	09/17/15 10:53	9	Aqueous
FDHSM110	15-09-1440-2	09/17/15 10:53	9	Aqueous
HSM120	15-09-1440-3	09/17/15 11:30	9	Aqueous
HSM130	15-09-1440-4	09/17/15 11:57	9	Aqueous
HSM140	15-09-1440-5	09/17/15 12:24	9	Aqueous
HSM150	15-09-1440-6	09/17/15 12:51	9	Aqueous
HSM160	15-09-1440-7	09/17/15 13:18	9	Aqueous
HSM170	15-09-1440-8	09/17/15 13:47	9	Aqueous
TB12	15-09-1440-9	09/17/15 00:00	1	Aqueous

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-09-1440-1-K**	**09/17/15 10:53**	**Aqueous**	**IC 10**	**N/A**	**09/18/15 17:33**	**150918L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.28	0.10	0.025	1.00	
Chloride	29	1.0	0.12	1.00	
Bromide	0.17	0.10	0.037	1.00	
Nitrate (as N)	0.56	0.10	0.025	1.00	
Sulfate	36	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM110	**15-09-1440-2-K**	**09/17/15 10:53**	**Aqueous**	**IC 10**	**N/A**	**09/18/15 17:52**	**150918L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.27	0.10	0.025	1.00	
Chloride	29	1.0	0.12	1.00	
Bromide	0.18	0.10	0.037	1.00	
Nitrate (as N)	0.59	0.10	0.025	1.00	
Sulfate	36	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-09-1440-3-K**	**09/17/15 11:30**	**Aqueous**	**IC 10**	**N/A**	**09/18/15 18:11**	**150918L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.21	0.10	0.025	1.00	
Chloride	19	1.0	0.12	1.00	
Bromide	0.11	0.10	0.037	1.00	
Nitrate (as N)	1.3	0.10	0.025	1.00	
Sulfate	28	1.0	0.19	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-09-1440-4-K**	**09/17/15 11:57**	**Aqueous**	**IC 10**	**N/A**	**09/18/15 18:30**	**150918L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.24	0.10	0.025	1.00	
Chloride	23	1.0	0.12	1.00	
Bromide	0.10	0.10	0.037	1.00	J
Nitrate (as N)	1.7	0.10	0.025	1.00	
Sulfate	32	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-09-1440-5-K**	**09/17/15 12:24**	**Aqueous**	**IC 10**	**N/A**	**09/18/15 20:15**	**150918L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.27	0.10	0.025	1.00	
Chloride	19	1.0	0.12	1.00	
Bromide	0.086	0.10	0.037	1.00	J
Nitrate (as N)	1.3	0.10	0.025	1.00	
Sulfate	28	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-09-1440-6-K**	**09/17/15 12:51**	**Aqueous**	**IC 10**	**N/A**	**09/18/15 20:34**	**150918L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.23	0.10	0.025	1.00	
Chloride	19	1.0	0.12	1.00	
Bromide	0.069	0.10	0.037	1.00	J
Nitrate (as N)	1.3	0.10	0.025	1.00	
Sulfate	28	1.0	0.19	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-09-1440-7-K**	**09/17/15 13:18**	**Aqueous**	**IC 10**	**N/A**	**09/18/15 20:53**	**150918L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.22	0.10	0.025	1.00	
Chloride	19	1.0	0.12	1.00	
Bromide	0.098	0.10	0.037	1.00	J
Nitrate (as N)	1.3	0.10	0.025	1.00	
Sulfate	28	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-09-1440-8-K**	**09/17/15 13:47**	**Aqueous**	**IC 10**	**N/A**	**09/18/15 21:12**	**150918L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.24	0.10	0.025	1.00	
Chloride	19	1.0	0.12	1.00	
Bromide	0.087	0.10	0.037	1.00	J
Nitrate (as N)	1.3	0.10	0.025	1.00	
Sulfate	28	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-906-6100**	**N/A**	**Aqueous**	**IC 10**	**N/A**	**09/18/15 14:41**	**150918L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	ND	0.10	0.025	1.00	
Chloride	ND	1.0	0.12	1.00	
Bromide	ND	0.10	0.037	1.00	
Nitrate (as N)	ND	0.10	0.025	1.00	
Sulfate	ND	1.0	0.19	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-09-1440-1-F**	**09/17/15 10:53**	**Aqueous**	**ICP 7300**	**09/22/15**	**09/29/15 19:25**	**150922LA6F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	94.8	0.100	0.0118	1.00	
Magnesium	20.1	0.100	0.00336	1.00	B
Potassium	2.18	0.500	0.103	1.00	
Sodium	17.8	0.500	0.103	1.00	
Strontium	0.756	0.0300	0.00277	1.00	
Silicon	5.53	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM110	**15-09-1440-2-F**	**09/17/15 10:53**	**Aqueous**	**ICP 7300**	**09/22/15**	**09/29/15 19:28**	**150922LA6F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	91.2	0.100	0.0118	1.00	
Magnesium	19.4	0.100	0.00336	1.00	B
Potassium	2.08	0.500	0.103	1.00	
Sodium	17.1	0.500	0.103	1.00	
Strontium	0.725	0.0300	0.00277	1.00	
Silicon	5.33	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-09-1440-3-F**	**09/17/15 11:30**	**Aqueous**	**ICP 7300**	**09/22/15**	**09/29/15 19:30**	**150922LA6F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	95.1	0.100	0.0118	1.00	
Magnesium	17.1	0.100	0.00336	1.00	B
Potassium	1.54	0.500	0.103	1.00	
Sodium	12.4	0.500	0.103	1.00	
Strontium	0.576	0.0300	0.00277	1.00	
Silicon	5.37	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-09-1440-4-F**	**09/17/15 11:57**	**Aqueous**	**ICP 7300**	**09/22/15**	**09/29/15 19:33**	**150922LA6F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	98.3	0.100	0.0118	1.00	
Magnesium	16.3	0.100	0.00336	1.00	B
Potassium	1.77	0.500	0.103	1.00	
Sodium	14.8	0.500	0.103	1.00	
Strontium	0.605	0.0300	0.00277	1.00	
Silicon	5.37	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-09-1440-5-F**	**09/17/15 12:24**	**Aqueous**	**ICP 7300**	**09/22/15**	**09/29/15 19:35**	**150922LA6F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	94.9	0.100	0.0118	1.00	
Magnesium	17.0	0.100	0.00336	1.00	B
Potassium	1.52	0.500	0.103	1.00	
Sodium	12.4	0.500	0.103	1.00	
Strontium	0.584	0.0300	0.00277	1.00	
Silicon	5.19	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-09-1440-6-F**	**09/17/15 12:51**	**Aqueous**	**ICP 7300**	**09/22/15**	**09/29/15 19:38**	**150922LA6F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	94.9	0.100	0.0118	1.00	
Magnesium	16.8	0.100	0.00336	1.00	B
Potassium	1.59	0.500	0.103	1.00	
Sodium	12.4	0.500	0.103	1.00	
Strontium	0.584	0.0300	0.00277	1.00	
Silicon	5.07	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-09-1440-7-F**	**09/17/15 13:18**	**Aqueous**	**ICP 7300**	**09/22/15**	**09/29/15 19:40**	**150922LA6F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	94.9	0.100	0.0118	1.00	
Magnesium	17.2	0.100	0.00336	1.00	B
Potassium	1.55	0.500	0.103	1.00	
Sodium	12.6	0.500	0.103	1.00	
Strontium	0.588	0.0300	0.00277	1.00	
Silicon	5.29	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-09-1440-8-F**	**09/17/15 13:47**	**Aqueous**	**ICP 7300**	**09/22/15**	**09/29/15 19:43**	**150922LA6F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	94.2	0.100	0.0118	1.00	
Magnesium	17.0	0.100	0.00336	1.00	B
Potassium	1.53	0.500	0.103	1.00	
Sodium	12.4	0.500	0.103	1.00	
Strontium	0.579	0.0300	0.00277	1.00	
Silicon	5.26	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-683-1409**	**N/A**	**Aqueous**	**ICP 7300**	**09/22/15**	**09/29/15 18:51**	**150922LA6F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	ND	0.100	0.0118	1.00	
Magnesium	0.00711	0.100	0.00336	1.00	J
Potassium	ND	0.500	0.103	1.00	
Sodium	ND	0.500	0.103	1.00	
Strontium	ND	0.0300	0.00277	1.00	
Silicon	ND	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-09-1440-1-F**	**09/17/15 10:53**	**Aqueous**	**ICP/MS 03**	**09/22/15**	**09/24/15 16:09**	**150922LA3F**

Comment(s): - The reporting limit is elevated resulting from matrix interference.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00500	0.000498	5.00	
Arsenic	ND	0.00500	0.00193	5.00	
Barium	0.0407	0.00500	0.000493	5.00	
Beryllium	ND	0.00500	0.00145	5.00	
Cadmium	ND	0.00500	0.000642	5.00	
Chromium	ND	0.00500	0.00201	5.00	
Copper	0.00175	0.00500	0.000699	5.00	J
Lead	ND	0.00500	0.000449	5.00	
Nickel	0.00176	0.00500	0.000658	5.00	J
Selenium	ND	0.00500	0.000841	5.00	
Silver	ND	0.00500	0.000553	5.00	
Thallium	ND	0.00500	0.000504	5.00	
Zinc	ND	0.0250	0.00239	5.00	
Aluminum	ND	0.250	0.0165	5.00	
Iron	ND	0.250	0.0463	5.00	
Manganese	0.283	0.00500	0.000694	5.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM110	**15-09-1440-2-F**	**09/17/15 10:53**	**Aqueous**	**ICP/MS 03**	**09/22/15**	**09/24/15 16:12**	**150922LA3F**

Comment(s): - The reporting limit is elevated resulting from matrix interference.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00500	0.000498	5.00	
Arsenic	ND	0.00500	0.00193	5.00	
Barium	0.0394	0.00500	0.000493	5.00	
Beryllium	ND	0.00500	0.00145	5.00	
Cadmium	ND	0.00500	0.000642	5.00	
Chromium	ND	0.00500	0.00201	5.00	
Copper	0.00216	0.00500	0.000699	5.00	J
Lead	ND	0.00500	0.000449	5.00	
Nickel	0.00168	0.00500	0.000658	5.00	J
Selenium	ND	0.00500	0.000841	5.00	
Silver	ND	0.00500	0.000553	5.00	
Thallium	ND	0.00500	0.000504	5.00	
Zinc	ND	0.0250	0.00239	5.00	
Aluminum	ND	0.250	0.0165	5.00	
Iron	ND	0.250	0.0463	5.00	
Manganese	0.282	0.00500	0.000694	5.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-09-1440-3-F**	**09/17/15 11:30**	**Aqueous**	**ICP/MS 03**	**09/22/15**	**09/24/15 16:16**	**150922LA3F**

Comment(s): - The reporting limit is elevated resulting from matrix interference.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00500	0.000498	5.00	
Arsenic	ND	0.00500	0.00193	5.00	
Barium	0.0377	0.00500	0.000493	5.00	
Beryllium	ND	0.00500	0.00145	5.00	
Cadmium	ND	0.00500	0.000642	5.00	
Chromium	ND	0.00500	0.00201	5.00	
Copper	0.00629	0.00500	0.000699	5.00	
Lead	ND	0.00500	0.000449	5.00	
Nickel	0.00180	0.00500	0.000658	5.00	J
Selenium	ND	0.00500	0.000841	5.00	
Silver	ND	0.00500	0.000553	5.00	
Thallium	ND	0.00500	0.000504	5.00	
Zinc	ND	0.0250	0.00239	5.00	
Aluminum	ND	0.250	0.0165	5.00	
Iron	ND	0.250	0.0463	5.00	
Manganese	0.00170	0.00500	0.000694	5.00	J

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-09-1440-4-F**	**09/17/15 11:57**	**Aqueous**	**ICP/MS 03**	**09/22/15**	**09/24/15 16:19**	**150922LA3F**

Comment(s): - The reporting limit is elevated resulting from matrix interference.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00500	0.000498	5.00	
Arsenic	ND	0.00500	0.00193	5.00	
Barium	0.0414	0.00500	0.000493	5.00	
Beryllium	ND	0.00500	0.00145	5.00	
Cadmium	ND	0.00500	0.000642	5.00	
Chromium	ND	0.00500	0.00201	5.00	
Copper	0.00204	0.00500	0.000699	5.00	J
Lead	ND	0.00500	0.000449	5.00	
Nickel	0.00162	0.00500	0.000658	5.00	J
Selenium	ND	0.00500	0.000841	5.00	
Silver	ND	0.00500	0.000553	5.00	
Thallium	ND	0.00500	0.000504	5.00	
Zinc	ND	0.0250	0.00239	5.00	
Aluminum	ND	0.250	0.0165	5.00	
Iron	ND	0.250	0.0463	5.00	
Manganese	0.00154	0.00500	0.000694	5.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-09-1440-5-F**	**09/17/15 12:24**	**Aqueous**	**ICP/MS 03**	**09/22/15**	**09/24/15 16:23**	**150922LA3F**

Comment(s): - The reporting limit is elevated resulting from matrix interference.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00500	0.000498	5.00	
Arsenic	ND	0.00500	0.00193	5.00	
Barium	0.0371	0.00500	0.000493	5.00	
Beryllium	ND	0.00500	0.00145	5.00	
Cadmium	ND	0.00500	0.000642	5.00	
Chromium	ND	0.00500	0.00201	5.00	
Copper	0.00218	0.00500	0.000699	5.00	J
Lead	ND	0.00500	0.000449	5.00	
Nickel	0.00160	0.00500	0.000658	5.00	J
Selenium	ND	0.00500	0.000841	5.00	
Silver	ND	0.00500	0.000553	5.00	
Thallium	ND	0.00500	0.000504	5.00	
Zinc	ND	0.0250	0.00239	5.00	
Aluminum	ND	0.250	0.0165	5.00	
Iron	ND	0.250	0.0463	5.00	
Manganese	0.00148	0.00500	0.000694	5.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-09-1440-6-F**	**09/17/15 12:51**	**Aqueous**	**ICP/MS 03**	**09/22/15**	**09/24/15 16:26**	**150922LA3F**

Comment(s): - The reporting limit is elevated resulting from matrix interference.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00500	0.000498	5.00	
Arsenic	ND	0.00500	0.00193	5.00	
Barium	0.0369	0.00500	0.000493	5.00	
Beryllium	ND	0.00500	0.00145	5.00	
Cadmium	ND	0.00500	0.000642	5.00	
Chromium	ND	0.00500	0.00201	5.00	
Copper	0.00165	0.00500	0.000699	5.00	J
Lead	ND	0.00500	0.000449	5.00	
Nickel	0.00157	0.00500	0.000658	5.00	J
Selenium	ND	0.00500	0.000841	5.00	
Silver	ND	0.00500	0.000553	5.00	
Thallium	ND	0.00500	0.000504	5.00	
Zinc	ND	0.0250	0.00239	5.00	
Aluminum	ND	0.250	0.0165	5.00	
Iron	ND	0.250	0.0463	5.00	
Manganese	0.00182	0.00500	0.000694	5.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-09-1440-7-F**	**09/17/15 13:18**	**Aqueous**	**ICP/MS 03**	**09/22/15**	**09/24/15 16:30**	**150922LA3F**

Comment(s): - The reporting limit is elevated resulting from matrix interference.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00500	0.000498	5.00	
Arsenic	ND	0.00500	0.00193	5.00	
Barium	0.0372	0.00500	0.000493	5.00	
Beryllium	ND	0.00500	0.00145	5.00	
Cadmium	ND	0.00500	0.000642	5.00	
Chromium	ND	0.00500	0.00201	5.00	
Copper	0.00691	0.00500	0.000699	5.00	
Lead	ND	0.00500	0.000449	5.00	
Nickel	0.00164	0.00500	0.000658	5.00	J
Selenium	ND	0.00500	0.000841	5.00	
Silver	ND	0.00500	0.000553	5.00	
Thallium	ND	0.00500	0.000504	5.00	
Zinc	0.0559	0.0250	0.00239	5.00	
Aluminum	ND	0.250	0.0165	5.00	
Iron	ND	0.250	0.0463	5.00	
Manganese	0.00320	0.00500	0.000694	5.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-09-1440-8-F**	**09/17/15 13:47**	**Aqueous**	**ICP/MS 03**	**09/22/15**	**09/24/15 16:33**	**150922LA3F**

Comment(s): - The reporting limit is elevated resulting from matrix interference.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00500	0.000498	5.00	
Arsenic	ND	0.00500	0.00193	5.00	
Barium	0.0368	0.00500	0.000493	5.00	
Beryllium	ND	0.00500	0.00145	5.00	
Cadmium	ND	0.00500	0.000642	5.00	
Chromium	ND	0.00500	0.00201	5.00	
Copper	0.00856	0.00500	0.000699	5.00	
Lead	ND	0.00500	0.000449	5.00	
Nickel	0.00171	0.00500	0.000658	5.00	J
Selenium	ND	0.00500	0.000841	5.00	
Silver	ND	0.00500	0.000553	5.00	
Thallium	ND	0.00500	0.000504	5.00	
Zinc	ND	0.0250	0.00239	5.00	
Aluminum	ND	0.250	0.0165	5.00	
Iron	ND	0.250	0.0463	5.00	
Manganese	0.00325	0.00500	0.000694	5.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-693-914**	**N/A**	**Aqueous**	**ICP/MS 03**	**09/22/15**	**09/24/15 02:13**	**150922LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	ND	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	ND	0.00100	0.000140	1.00	
Lead	0.000138	0.00100	0.0000898	1.00	J
Nickel	ND	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	ND	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	ND	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-09-1440-1-F**	**09/17/15 10:53**	**Aqueous**	**Mercury 04**	**09/23/15**	**09/23/15 21:00**	**150923LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM110	**15-09-1440-2-F**	**09/17/15 10:53**	**Aqueous**	**Mercury 04**	**09/23/15**	**09/23/15 21:06**	**150923LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-09-1440-3-F**	**09/17/15 11:30**	**Aqueous**	**Mercury 04**	**09/23/15**	**09/23/15 21:09**	**150923LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-09-1440-4-F**	**09/17/15 11:57**	**Aqueous**	**Mercury 04**	**09/23/15**	**09/23/15 21:11**	**150923LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-09-1440-5-F**	**09/17/15 12:24**	**Aqueous**	**Mercury 04**	**09/23/15**	**09/23/15 21:13**	**150923LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-09-1440-6-F**	**09/17/15 12:51**	**Aqueous**	**Mercury 04**	**09/23/15**	**09/23/15 21:15**	**150923LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-09-1440-7-F**	**09/17/15 13:18**	**Aqueous**	**Mercury 04**	**09/23/15**	**09/23/15 21:22**	**150923LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-09-1440-8-F**	**09/17/15 13:47**	**Aqueous**	**Mercury 04**	**09/23/15**	**09/23/15 21:24**	**150923LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-763-621**	**N/A**	**Aqueous**	**Mercury 04**	**09/23/15**	**09/23/15 20:55**	**150923LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-09-1440-1-K**	**09/17/15 10:53**	**Aqueous**	**GC 44**	**09/21/15**	**09/26/15 09:22**	**150921L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	50-135	
2,4,5,6-Tetrachloro-m-Xylene	96	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM110	**15-09-1440-2-K**	**09/17/15 10:53**	**Aqueous**	**GC 44**	**09/21/15**	**09/26/15 09:36**	**150921L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	50-135	
2,4,5,6-Tetrachloro-m-Xylene	96	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-09-1440-3-K**	**09/17/15 11:30**	**Aqueous**	**GC 44**	**09/21/15**	**09/26/15 09:50**	**150921L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	50-135	
2,4,5,6-Tetrachloro-m-Xylene	101	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-09-1440-4-K**	**09/17/15 11:57**	**Aqueous**	**GC 44**	**09/21/15**	**09/26/15 10:04**	**150921L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	50-135	
2,4,5,6-Tetrachloro-m-Xylene	102	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-09-1440-5-K**	**09/17/15 12:24**	**Aqueous**	**GC 44**	**09/21/15**	**09/26/15 10:19**	**150921L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	100	50-135	
2,4,5,6-Tetrachloro-m-Xylene	103	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-09-1440-6-K**	**09/17/15 12:51**	**Aqueous**	**GC 44**	**09/21/15**	**09/26/15 10:33**	**150921L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	101	50-135	
2,4,5,6-Tetrachloro-m-Xylene	101	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-09-1440-7-K**	**09/17/15 13:18**	**Aqueous**	**GC 44**	**09/21/15**	**09/26/15 10:47**	**150921L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	92	50-135	
2,4,5,6-Tetrachloro-m-Xylene	91	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-09-1440-8-K**	**09/17/15 13:47**	**Aqueous**	**GC 44**	**09/21/15**	**09/26/15 11:02**	**150921L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	100	50-135	
2,4,5,6-Tetrachloro-m-Xylene	94	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-529-843**	**N/A**	**Aqueous**	**GC 44**	**09/21/15**	**09/26/15 09:07**	**150921L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	50-135	
2,4,5,6-Tetrachloro-m-Xylene	100	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-09-1440-1-K**	**09/17/15 10:53**	**Aqueous**	**GC 58**	**09/21/15**	**09/24/15 23:33**	**150921L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	97	50-135	
2,4,5,6-Tetrachloro-m-Xylene	91	50-135	

FDHSM110	15-09-1440-2-K	09/17/15 10:53	Aqueous	GC 58	09/21/15	09/24/15 23:51	150921L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	101	50-135	
2,4,5,6-Tetrachloro-m-Xylene	95	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-09-1440-3-K**	**09/17/15 11:30**	**Aqueous**	**GC 58**	**09/21/15**	**09/25/15 00:09**	**150921L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	50-135	
2,4,5,6-Tetrachloro-m-Xylene	96	50-135	

HSM130	**15-09-1440-4-K**	**09/17/15 11:57**	**Aqueous**	**GC 58**	**09/21/15**	**09/25/15 00:27**	**150921L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	101	50-135	
2,4,5,6-Tetrachloro-m-Xylene	95	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-09-1440-5-K**	**09/17/15 12:24**	**Aqueous**	**GC 58**	**09/21/15**	**09/25/15 00:45**	**150921L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	104	50-135	
2,4,5,6-Tetrachloro-m-Xylene	99	50-135	

HSM150	**15-09-1440-6-K**	**09/17/15 12:51**	**Aqueous**	**GC 58**	**09/21/15**	**09/25/15 01:02**	**150921L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	50-135	
2,4,5,6-Tetrachloro-m-Xylene	93	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-09-1440-7-K**	**09/17/15 13:18**	**Aqueous**	**GC 58**	**09/21/15**	**09/25/15 01:20**	**150921L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	50-135	
2,4,5,6-Tetrachloro-m-Xylene	91	50-135	

HSM170	**15-09-1440-8-K**	**09/17/15 13:47**	**Aqueous**	**GC 58**	**09/21/15**	**09/25/15 01:38**	**150921L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	50-135	
2,4,5,6-Tetrachloro-m-Xylene	87	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-533-1091**	**N/A**	**Aqueous**	**GC 58**	**09/21/15**	**09/24/15 23:15**	**150921L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	50-135	
2,4,5,6-Tetrachloro-m-Xylene	93	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-09-1440-1-K**	**09/17/15 10:53**	**Aqueous**	**GC 35**	**09/19/15**	**09/23/15 23:05**	**150919L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	96	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM110	**15-09-1440-2-K**	**09/17/15 10:53**	**Aqueous**	**GC 35**	**09/19/15**	**09/23/15 23:51**	**150919L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	87	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-09-1440-3-K**	**09/17/15 11:30**	**Aqueous**	**GC 35**	**09/19/15**	**09/24/15 00:37**	**150919L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	98	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-09-1440-4-K**	**09/17/15 11:57**	**Aqueous**	**GC 35**	**09/19/15**	**09/24/15 01:23**	**150919L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	104	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-09-1440-5-K**	**09/17/15 12:24**	**Aqueous**	**GC 35**	**09/19/15**	**09/24/15 02:09**	**150919L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	109	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-09-1440-6-K**	**09/17/15 12:51**	**Aqueous**	**GC 35**	**09/19/15**	**09/24/15 02:55**	**150919L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	101	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-09-1440-7-K**	**09/17/15 13:18**	**Aqueous**	**GC 35**	**09/19/15**	**09/24/15 03:41**	**150919L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	105	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-09-1440-8-K**	**09/17/15 13:47**	**Aqueous**	**GC 35**	**09/19/15**	**09/24/15 04:26**	**150919L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	97	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-963-112**	**N/A**	**Aqueous**	**GC 35**	**09/19/15**	**09/23/15 16:51**	**150919L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	92	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-09-1440-1-K**	**09/17/15 10:53**	**Aqueous**	**GC 40**	**09/23/15**	**09/28/15 15:30**	**150923L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	91	0-123	

FDHSM110	15-09-1440-2-K	09/17/15 10:53	Aqueous	GC 40	09/23/15	09/28/15 15:54	150923L05

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	87	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-09-1440-3-K**	**09/17/15 11:30**	**Aqueous**	**GC 40**	**09/23/15**	**09/28/15 16:17**	**150923L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	78	0-123	

HSM130	15-09-1440-4-K	09/17/15 11:57	Aqueous	GC 40	09/23/15	09/28/15 16:40	150923L05

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	90	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-09-1440-5-K**	**09/17/15 12:24**	**Aqueous**	**GC 40**	**09/23/15**	**09/28/15 17:03**	**150923L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	85	0-123	

HSM150	15-09-1440-6-K	09/17/15 12:51	Aqueous	GC 40	09/23/15	09/28/15 17:26	150923L05

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	107	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-09-1440-7-K**	**09/17/15 13:18**	**Aqueous**	**GC 40**	**09/23/15**	**09/28/15 17:50**	**150923L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	90	0-123	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-09-1440-8-K**	**09/17/15 13:47**	**Aqueous**	**GC 40**	**09/23/15**	**09/28/15 18:13**	**150923L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	101	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-034-660**	**N/A**	**Aqueous**	**GC 40**	**09/23/15**	**09/25/15 13:49**	**150923L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	90	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-09-1440-1-I**	**09/17/15 10:53**	**Aqueous**	**GC/MS SS**	**09/22/15**	**09/24/15 12:12**	**150922L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	09/18/15
6200 UTSA Blvd., Suite 102	Work Order:	15-09-1440
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 3 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	77	33-120	
2-Fluorophenol	51	24-120	
Nitrobenzene-d5	86	38-120	
p-Terphenyl-d14	77	41-137	
Phenol-d6	33	16-120	
2,4,6-Tribromophenol	78	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM110	**15-09-1440-2-I**	**09/17/15 10:53**	**Aqueous**	**GC/MS SS**	**09/22/15**	**09/24/15 12:32**	**150922L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	09/18/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-1440
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 6 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	80	33-120	
2-Fluorophenol	57	24-120	
Nitrobenzene-d5	89	38-120	
p-Terphenyl-d14	82	41-137	
Phenol-d6	35	16-120	
2,4,6-Tribromophenol	81	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-09-1440-3-I**	**09/17/15 11:30**	**Aqueous**	**GC/MS SS**	**09/22/15**	**09/24/15 12:52**	**150922L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	09/18/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-1440
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 9 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	81	33-120	
2-Fluorophenol	55	24-120	
Nitrobenzene-d5	86	38-120	
p-Terphenyl-d14	78	41-137	
Phenol-d6	35	16-120	
2,4,6-Tribromophenol	77	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-09-1440-4-I**	**09/17/15 11:57**	**Aqueous**	**GC/MS SS**	**09/22/15**	**09/24/15 13:11**	**150922L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	09/18/15
6200 UTSA Blvd., Suite 102	Work Order:	15-09-1440
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 12 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	82	33-120	
2-Fluorophenol	58	24-120	
Nitrobenzene-d5	89	38-120	
p-Terphenyl-d14	81	41-137	
Phenol-d6	36	16-120	
2,4,6-Tribromophenol	80	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-09-1440-5-I**	**09/17/15 12:24**	**Aqueous**	**GC/MS SS**	**09/22/15**	**09/24/15 13:31**	**150922L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	09/18/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-1440
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 15 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	71	33-120	
2-Fluorophenol	53	24-120	
Nitrobenzene-d5	76	38-120	
p-Terphenyl-d14	71	41-137	
Phenol-d6	34	16-120	
2,4,6-Tribromophenol	68	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-09-1440-6-I**	**09/17/15 12:51**	**Aqueous**	**GC/MS SS**	**09/22/15**	**09/24/15 13:51**	**150922L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	09/18/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-1440
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 18 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	65	33-120	
2-Fluorophenol	49	24-120	
Nitrobenzene-d5	71	38-120	
p-Terphenyl-d14	65	41-137	
Phenol-d6	31	16-120	
2,4,6-Tribromophenol	64	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-09-1440-7-I**	**09/17/15 13:18**	**Aqueous**	**GC/MS SS**	**09/22/15**	**09/24/15 14:11**	**150922L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	09/18/15
6200 UTSA Blvd., Suite 102	Work Order:	15-09-1440
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 21 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	60	33-120	
2-Fluorophenol	45	24-120	
Nitrobenzene-d5	62	38-120	
p-Terphenyl-d14	61	41-137	
Phenol-d6	29	16-120	
2,4,6-Tribromophenol	56	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-09-1440-8-I**	**09/17/15 13:47**	**Aqueous**	**GC/MS SS**	**09/22/15**	**09/24/15 14:30**	**150922L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	09/18/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-1440
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 24 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	78	33-120	
2-Fluorophenol	54	24-120	
Nitrobenzene-d5	83	38-120	
p-Terphenyl-d14	78	41-137	
Phenol-d6	33	16-120	
2,4,6-Tribromophenol	75	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-4108**	**N/A**	**Aqueous**	**GC/MS SS**	**09/22/15**	**09/24/15 11:08**	**150922L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.5	1.00	
Benzo (k) Fluoranthene	ND	10	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.7	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.8	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.5	1.00	
Dibenzofuran	ND	10	2.8	1.00	
1,2-Dichlorobenzene	ND	10	3.0	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	10	2.3	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.1	1.00	
Isophorone	ND	10	2.5	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.8	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.1	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.6	1.00	
Phenanthrene	ND	10	2.9	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.8	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	09/18/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-1440
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 27 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	84	33-120	
2-Fluorophenol	62	24-120	
Nitrobenzene-d5	91	38-120	
p-Terphenyl-d14	85	41-137	
Phenol-d6	40	16-120	
2,4,6-Tribromophenol	83	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM110	**15-09-1440-1-A**	**09/17/15 10:53**	**Aqueous**	**GC/MS JJ**	**09/22/15**	**09/22/15 17:06**	**150922L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	110	78-126	
1,2-Dichloroethane-d4	112	75-135	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM110	**15-09-1440-2-A**	**09/17/15 10:53**	**Aqueous**	**GC/MS JJ**	**09/22/15**	**09/22/15 17:34**	**150922L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	109	78-126	
1,2-Dichloroethane-d4	110	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM120	**15-09-1440-3-A**	**09/17/15 11:30**	**Aqueous**	**GC/MS JJ**	**09/22/15**	**09/22/15 18:02**	**150922L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	
Dibromofluoromethane	114	78-126	
1,2-Dichloroethane-d4	114	75-135	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM130	**15-09-1440-4-A**	**09/17/15 11:57**	**Aqueous**	**GC/MS JJ**	**09/22/15**	**09/22/15 18:30**	**150922L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	
Dibromofluoromethane	111	78-126	
1,2-Dichloroethane-d4	111	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM140	**15-09-1440-5-D**	**09/17/15 12:24**	**Aqueous**	**GC/MS LL**	**09/24/15**	**09/24/15 18:41**	**150924L008**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	94	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM150	**15-09-1440-6-B**	**09/17/15 12:51**	**Aqueous**	**GC/MS LL**	**09/24/15**	**09/24/15 16:19**	**150924L008**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	91	75-135	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM160	**15-09-1440-7-B**	**09/17/15 13:18**	**Aqueous**	**GC/MS LL**	**09/24/15**	**09/24/15 16:55**	**150924L008**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	98	78-126	
1,2-Dichloroethane-d4	91	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM170	**15-09-1440-8-B**	**09/17/15 13:47**	**Aqueous**	**GC/MS LL**	**09/24/15**	**09/24/15 17:30**	**150924L008**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	93	75-135	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB12	**15-09-1440-9-A**	**09/17/15 00:00**	**Aqueous**	**GC/MS JJ**	**09/22/15**	**09/22/15 16:40**	**150922L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	108	78-126	
1,2-Dichloroethane-d4	110	75-135	
Toluene-d8	103	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-18227**	**N/A**	**Aqueous**	**GC/MS JJ**	**09/22/15**	**09/22/15 11:22**	**150922L002**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	80-120	
Dibromofluoromethane	106	78-126	
1,2-Dichloroethane-d4	105	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-18261**	**N/A**	**Aqueous**	**GC/MS LL**	**09/24/15**	**09/24/15 13:57**	**150924L008**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	0.50	10	0.41	1.00	J
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	80-120	
Dibromofluoromethane	95	78-126	
1,2-Dichloroethane-d4	89	75-135	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM110	**15-09-1440-1**	**09/17/15 10:53**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.038	0.050	0.020	1.00	J	mg/L	N/A	10/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	266	5.00	0.848	1.00		mg/L	N/A	09/29/15	SM 2320B
Bicarbonate (as CaCO3) (24)	266	5.00	0.848	1.00		mg/L	N/A	09/29/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/29/15	SM 2320B
Solids, Total Dissolved (24)	420	1.00	0.870	1.00		mg/L	09/24/15	09/24/15	SM 2540 C
Solids, Total Suspended (24)	4.5	1.0	0.83	1.00		mg/L	09/22/15	09/22/15	SM 2540 D
pH (24)	7.03	0.01	0.01	1.00	BV,BU	pH units	N/A	09/18/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.28	0.50	0.28	1.00	J	mg/L	09/26/15	09/26/15	SM 4500 N Org B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
FDHSM110	**15-09-1440-2**	**09/17/15 10:53**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.039	0.050	0.020	1.00	J	mg/L	N/A	10/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	271	5.00	0.848	1.00		mg/L	N/A	09/29/15	SM 2320B
Bicarbonate (as CaCO3) (24)	271	5.00	0.848	1.00		mg/L	N/A	09/29/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/29/15	SM 2320B
Solids, Total Dissolved (24)	400	1.00	0.870	1.00		mg/L	09/24/15	09/24/15	SM 2540 C
Solids, Total Suspended (24)	4.6	1.0	0.83	1.00		mg/L	09/22/15	09/22/15	SM 2540 D
pH (24)	7.10	0.01	0.01	1.00	BV,BU	pH units	N/A	09/18/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.35	0.50	0.28	1.00	J	mg/L	09/26/15	09/26/15	SM 4500 N Org B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM120	**15-09-1440-3**	**09/17/15 11:30**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.027	0.050	0.020	1.00	J	mg/L	N/A	10/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	267	5.00	0.848	1.00		mg/L	N/A	09/29/15	SM 2320B
Bicarbonate (as CaCO3) (24)	267	5.00	0.848	1.00		mg/L	N/A	09/29/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/29/15	SM 2320B
Solids, Total Dissolved (24)	375	1.00	0.870	1.00		mg/L	09/24/15	09/24/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	09/22/15	09/22/15	SM 2540 D
pH (24)	7.07	0.01	0.01	1.00	BV,BU	pH units	N/A	09/18/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.35	0.50	0.28	1.00	J	mg/L	09/26/15	09/26/15	SM 4500 N Org B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM130	**15-09-1440-4**	**09/17/15 11:57**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.029	0.050	0.020	1.00	J	mg/L	N/A	10/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	268	5.00	0.848	1.00		mg/L	N/A	09/29/15	SM 2320B
Bicarbonate (as CaCO3) (24)	268	5.00	0.848	1.00		mg/L	N/A	09/29/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/29/15	SM 2320B
Solids, Total Dissolved (24)	335	1.00	0.870	1.00		mg/L	09/24/15	09/24/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	09/22/15	09/22/15	SM 2540 D
pH (24)	7.15	0.01	0.01	1.00	BV,BU	pH units	N/A	09/18/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	09/26/15	09/26/15	SM 4500 N Org B

HSM140	**15-09-1440-5**	**09/17/15 12:24**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.027	0.050	0.020	1.00	J	mg/L	N/A	10/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	268	5.00	0.848	1.00		mg/L	N/A	09/29/15	SM 2320B
Bicarbonate (as CaCO3) (24)	268	5.00	0.848	1.00		mg/L	N/A	09/29/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/29/15	SM 2320B
Solids, Total Dissolved (24)	285	1.00	0.870	1.00		mg/L	09/24/15	09/24/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	09/22/15	09/22/15	SM 2540 D
pH (24)	7.32	0.01	0.01	1.00	BV,BU	pH units	N/A	09/18/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	09/26/15	09/26/15	SM 4500 N Org B

HSM150	**15-09-1440-6**	**09/17/15 12:51**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.027	0.050	0.020	1.00	J	mg/L	N/A	10/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	265	5.00	0.848	1.00		mg/L	N/A	09/29/15	SM 2320B
Bicarbonate (as CaCO3) (24)	265	5.00	0.848	1.00		mg/L	N/A	09/29/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/29/15	SM 2320B
Solids, Total Dissolved (24)	325	1.00	0.870	1.00		mg/L	09/24/15	09/24/15	SM 2540 C
Solids, Total Suspended (24)	1.8	1.0	0.83	1.00		mg/L	09/22/15	09/22/15	SM 2540 D
pH (24)	7.37	0.01	0.01	1.00	BV,BU	pH units	N/A	09/18/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	09/26/15	09/26/15	SM 4500 N Org B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM160	**15-09-1440-7**	**09/17/15 13:18**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.029	0.050	0.020	1.00	J	mg/L	N/A	10/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	264	5.00	0.848	1.00		mg/L	N/A	09/29/15	SM 2320B
Bicarbonate (as CaCO3) (24)	264	5.00	0.848	1.00		mg/L	N/A	09/29/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/29/15	SM 2320B
Solids, Total Dissolved (24)	380	1.00	0.870	1.00		mg/L	09/24/15	09/24/15	SM 2540 C
Solids, Total Suspended (24)	3.5	1.0	0.83	1.00		mg/L	09/22/15	09/22/15	SM 2540 D
pH (24)	7.46	0.01	0.01	1.00	BV,BU	pH units	N/A	09/18/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.28	0.50	0.28	1.00	J	mg/L	09/26/15	09/26/15	SM 4500 N Org B

HSM170	**15-09-1440-8**	**09/17/15 13:47**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.030	0.050	0.020	1.00	J	mg/L	N/A	10/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	265	5.00	0.848	1.00		mg/L	N/A	09/29/15	SM 2320B
Bicarbonate (as CaCO3) (24)	265	5.00	0.848	1.00		mg/L	N/A	09/29/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/29/15	SM 2320B
Solids, Total Dissolved (24)	320	1.00	0.870	1.00		mg/L	09/24/15	09/24/15	SM 2540 C
Solids, Total Suspended (24)	6.7	1.0	0.83	1.00		mg/L	09/22/15	09/22/15	SM 2540 D
pH (24)	7.50	0.01	0.01	1.00	BV,BU	pH units	N/A	09/18/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	09/26/15	09/26/15	SM 4500 N Org B

Method Blank		**N/A**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	10/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/29/15	SM 2320B
Bicarbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/29/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	09/29/15	SM 2320B
Solids, Total Dissolved (24)	ND	1.0	0.87	1.00		mg/L	09/24/15	09/24/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	09/22/15	09/22/15	SM 2540 D
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	09/26/15	09/26/15	SM 4500 N Org B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: N/A
Method: EPA 300.0

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-09-1412-1	**Sample**	**Aqueous**	**IC 10**	**N/A**	**09/18/15 15:59**	**150918S01**
15-09-1412-1	**Matrix Spike**	**Aqueous**	**IC 10**	**N/A**	**09/18/15 22:08**	**150918S01**
15-09-1412-1	**Matrix Spike Duplicate**	**Aqueous**	**IC 10**	**N/A**	**09/18/15 22:27**	**150918S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Fluoride	0.1544	2.500	2.759	104	2.728	103	80-120	1	0-20	
Chloride	126.3	50.00	186.3	120	186.2	120	80-120	0	0-20	
Bromide	0.5047	5.000	5.369	97	5.368	97	80-120	0	0-20	
Nitrate (as N)	24.03	5.000	30.54	130	30.62	132	80-120	0	0-20	3
Sulfate	126.1	50.00	190.2	128	189.3	126	80-120	0	0-20	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-09-1719-4	**Sample**	**Sea Water**	**ACA 1**	**N/A**	**10/02/15 15:04**	**151002S01**
15-09-1719-4	**Matrix Spike**	**Sea Water**	**ACA 1**	**N/A**	**10/02/15 15:04**	**151002S01**
15-09-1719-4	**Matrix Spike Duplicate**	**Sea Water**	**ACA 1**	**N/A**	**10/02/15 15:04**	**151002S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.05681	0.2000	0.2857	114	0.2908	117	90-110	2	0-25	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM150	**Sample**	**Aqueous**	**ICP 7300**	**09/22/15**	**09/29/15 19:38**	**150922SA6A**
HSM150	**Matrix Spike**	**Aqueous**	**ICP 7300**	**09/22/15**	**09/29/15 19:20**	**150922SA6A**
HSM150	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**09/22/15**	**09/29/15 19:23**	**150922SA6A**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Calcium	94.93	0.5000	94.91	4X	95.08	4X	77-113	4X	0-11	Q
Magnesium	16.80	0.5000	17.73	4X	17.67	4X	56-140	4X	0-11	Q
Potassium	1.586	5.000	6.631	101	6.671	102	83-131	1	0-7	
Sodium	12.42	5.000	17.82	108	17.73	106	73-127	1	0-9	
Strontium	0.5843	0.5000	1.136	110	1.125	108	81-123	1	0-6	
Silicon	5.067	0.5000	5.757	4X	5.736	4X	24-180	4X	0-15	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3005A Filt.
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-09-1427-3	**Sample**	**Aqueous**	**ICP/MS 03**	**09/22/15**	**09/24/15 02:52**	**150922SA3A**
15-09-1427-3	**Matrix Spike**	**Aqueous**	**ICP/MS 03**	**09/22/15**	**09/24/15 02:20**	**150922SA3A**
15-09-1427-3	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 03**	**09/22/15**	**09/24/15 02:24**	**150922SA3A**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.1000	0.1072	107	0.1050	105	85-133	2	0-11	
Arsenic	0.07947	0.1000	0.1795	100	0.1773	98	73-127	1	0-11	
Barium	0.03030	0.1000	0.1396	109	0.1290	99	74-128	8	0-10	
Beryllium	ND	0.1000	0.1094	109	0.1063	106	56-122	3	0-11	
Cadmium	ND	0.1000	0.1009	101	0.09872	99	84-114	2	0-8	
Chromium	0.001546	0.1000	0.1120	110	0.1133	112	73-133	1	0-11	
Copper	0.001308	0.1000	0.1040	103	0.1031	102	72-108	1	0-10	
Lead	ND	0.1000	0.1129	113	0.1121	112	79-121	1	0-10	
Nickel	0.003385	0.1000	0.1042	101	0.1043	101	68-122	0	0-10	
Selenium	ND	0.1000	0.09469	95	0.09164	92	59-125	3	0-12	
Silver	ND	0.05000	0.05441	109	0.04931	99	68-128	10	0-14	
Thallium	ND	0.1000	0.1107	111	0.1098	110	73-121	1	0-11	
Zinc	0.02463	0.1000	0.1011	76	0.09564	71	43-145	6	0-39	
Aluminum	ND	0.1000	0.1271	127	0.1114	111	47-161	13	0-24	
Iron	12.65	5.100	17.65	98	18.04	106	27-201	2	0-24	
Manganese	1.733	0.1000	1.759	4X	1.818	4X	72-126	4X	0-42	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	09/18/15
6200 UTSA Blvd., Suite 102	Work Order:	15-09-1440
San Antonio, TX 78249-1618	Preparation:	EPA 7470A Filt.
	Method:	EPA 7470A
Project: EAA 27122		Page 5 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM110	**Sample**	**Aqueous**	**Mercury 04**	**09/23/15**	**09/23/15 21:00**	**150923SA4**
HSM110	**Matrix Spike**	**Aqueous**	**Mercury 04**	**09/23/15**	**09/23/15 21:02**	**150923SA4**
HSM110	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 04**	**09/23/15**	**09/23/15 21:04**	**150923SA4**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.009067	91	0.009003	90	55-133	1	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-09-1804-1	**Sample**	**Aqueous**	**GC/MS LL**	**09/24/15**	**09/24/15 14:33**	**150924S006**
15-09-1804-1	**Matrix Spike**	**Aqueous**	**GC/MS LL**	**09/24/15**	**09/24/15 11:35**	**150924S006**
15-09-1804-1	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS LL**	**09/24/15**	**09/24/15 12:11**	**150924S006**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	50.78	102	50.34	101	74-122	1	0-21	
Carbon Tetrachloride	ND	50.00	47.38	95	45.72	91	60-144	4	0-21	
Chlorobenzene	ND	50.00	54.13	108	52.98	106	73-120	2	0-22	
1,2-Dibromoethane	ND	50.00	51.67	103	50.05	100	80-122	3	0-20	
1,2-Dichlorobenzene	ND	50.00	56.03	112	54.75	110	70-120	2	0-26	
1,2-Dichloroethane	ND	50.00	45.63	91	44.99	90	64-142	1	0-20	
1,1-Dichloroethene	ND	50.00	50.42	101	48.29	97	52-136	4	0-21	
Ethylbenzene	ND	50.00	56.69	113	56.04	112	77-125	1	0-24	
Toluene	ND	50.00	54.72	109	53.59	107	72-126	2	0-23	
Trichloroethene	ND	50.00	52.40	105	51.58	103	74-128	2	0-22	
Vinyl Chloride	ND	50.00	54.92	110	54.81	110	67-133	0	0-20	
p/m-Xylene	ND	100.0	109.6	110	107.9	108	63-129	2	0-25	
o-Xylene	ND	50.00	54.89	110	53.69	107	62-128	2	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	50.91	102	51.11	102	68-134	0	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3005A Filt.
Method: EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
15-09-1427-3	**Sample**	**Aqueous**	**ICP/MS 03**	**09/22/15 00:00**	**09/24/15 02:52**	**150922SA3A**
15-09-1427-3	**PDS**	**Aqueous**	**ICP/MS 03**	**09/22/15 00:00**	**09/24/15 02:27**	**150922SA3A**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Antimony	ND	0.1000	0.1021	102	75-125	
Arsenic	0.07947	0.1000	0.1749	95	75-125	
Barium	0.03030	0.1000	0.1310	101	75-125	
Beryllium	ND	0.1000	0.1016	102	75-125	
Cadmium	ND	0.1000	0.09412	94	75-125	
Chromium	0.001546	0.1000	0.1063	105	75-125	
Copper	0.001308	0.1000	0.09770	96	75-125	
Lead	ND	0.1000	0.1064	106	75-125	
Nickel	0.003385	0.1000	0.09904	96	75-125	
Selenium	ND	0.1000	0.09106	91	75-125	
Silver	ND	0.05000	0.04634	93	75-125	
Thallium	ND	0.1000	0.1034	103	75-125	
Zinc	0.02463	0.1000	0.1130	88	75-125	
Aluminum	ND	0.1000	0.1086	109	75-125	
Iron	12.65	5.100	17.74	100	75-125	
Manganese	1.733	0.1000	1.799	4X	75-125	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM110	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**09/29/15 15:23**	**F0929ALKD1**
HSM110	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**09/29/15 15:23**	**F0929ALKD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	266.0	266.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM110	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**09/29/15 15:23**	**F0929HCOD1**
HSM110	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**09/29/15 15:23**	**F0929HCOD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Bicarbonate (as CaCO3)	266.0	266.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM110	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**09/29/15 15:23**	**F0929CO3D1**
HSM110	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**09/29/15 15:23**	**F0929CO3D1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Carbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-09-1854-1	**Sample**	**Aqueous**	**SC 2**	**09/24/15 00:00**	**09/24/15 17:00**	**F0924TDSD1**
15-09-1854-1	**Sample Duplicate**	**Aqueous**	**SC 2**	**09/24/15 00:00**	**09/24/15 17:00**	**F0924TDSD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	14220	14600	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-09-1314-2	**Sample**	**Aqueous**	**N/A**	**09/22/15 00:00**	**09/22/15 20:00**	**F0922TSSD4**
15-09-1314-2	**Sample Duplicate**	**Aqueous**	**N/A**	**09/22/15 00:00**	**09/22/15 20:00**	**F0922TSSD4**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Suspended	712.0	662.0	7	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: N/A
Method: SM 4500 H+ B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-09-1456-1	**Sample**	**Aqueous**	**PH 1**	**N/A**	**09/18/15 20:03**	**F0918PHD1**
15-09-1456-1	**Sample Duplicate**	**Aqueous**	**PH 1**	**N/A**	**09/18/15 20:03**	**F0918PHD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	6.710	6.680	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: N/A
Method: SM 4500 N Org B
Page 7 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-09-1885-1	**Sample**	**Aqueous**	**BUR05**	**09/26/15 00:00**	**09/26/15 17:39**	**F0926TKND1**
15-09-1885-1	**Sample Duplicate**	**Aqueous**	**BUR05**	**09/26/15 00:00**	**09/26/15 17:39**	**F0926TKND1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Total Kjeldahl Nitrogen	79.52	80.64	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	09/18/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-1440
San Antonio, TX 78249-1618		Preparation:	N/A
		Method:	EPA 300.0
Project: EAA 27122			Page 1 of 15

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-906-6100	**LCS**	**Aqueous**	**IC 10**	**N/A**	**09/18/15 15:00**	**150918L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Fluoride	2.500	2.425	97	90-110	
Chloride	50.00	51.63	103	90-110	
Bromide	5.000	5.085	102	90-110	
Nitrate (as N)	5.000	5.138	103	90-110	
Sulfate	50.00	51.15	102	90-110	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-739-118	**LCS**	**Aqueous**	**ACA 1**	**N/A**	**10/02/15 15:04**	**151002L01**
099-12-739-118	**LCSD**	**Aqueous**	**ACA 1**	**N/A**	**10/02/15 15:04**	**151002L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.2000	0.1936	97	0.1985	99	90-110	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-859-810	**LCS**	**Aqueous**	**PH1/BUR03**	**N/A**	**09/29/15 15:23**	**F0929ALKB1**
099-15-859-810	**LCSD**	**Aqueous**	**PH1/BUR03**	**N/A**	**09/29/15 15:23**	**F0929ALKB1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	100.0	98.00	98	98.00	98	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-180-4755	**LCS**	**Aqueous**	**SC 2**	**09/24/15**	**09/24/15 17:00**	**F0924TDSL1**
099-12-180-4755	**LCSD**	**Aqueous**	**SC 2**	**09/24/15**	**09/24/15 17:00**	**F0924TDSL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100.0	85.00	85	90.00	90	80-120	6	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-010-7327	**LCS**	**Aqueous**	**N/A**	**09/22/15**	**09/22/15 20:00**	**F0922TSSL4**
099-09-010-7327	**LCSD**	**Aqueous**	**N/A**	**09/22/15**	**09/22/15 20:00**	**F0922TSSL4**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Suspended	100.0	107.0	107	109.0	109	80-120	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	09/18/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-1440
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B
Project: EAA 27122			Page 6 of 15

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-683-1409	**LCS**	**Aqueous**	**ICP 7300**	**09/22/15**	**09/29/15 18:53**	**150922LA6F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Calcium	0.5000	0.5027	101	80-120	
Magnesium	0.5000	0.4298	86	80-120	
Potassium	5.000	5.173	103	80-120	
Sodium	5.000	5.153	103	80-120	
Strontium	0.5000	0.5226	105	80-120	
Silicon	0.5000	0.3795	76	80-120	X

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	09/18/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-1440
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: EAA 27122			Page 7 of 15

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-693-914	**LCS**	**Aqueous**	**ICP/MS 03**	**09/22/15**	**09/24/15 02:17**	**150922LA3F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.1000	0.1012	101	80-120	73-127	
Arsenic	0.1000	0.09927	99	80-120	73-127	
Barium	0.1000	0.09713	97	80-120	73-127	
Beryllium	0.1000	0.1078	108	80-120	73-127	
Cadmium	0.1000	0.1028	103	80-120	73-127	
Chromium	0.1000	0.1022	102	80-120	73-127	
Copper	0.1000	0.09981	100	80-120	73-127	
Lead	0.1000	0.1008	101	80-120	73-127	
Nickel	0.1000	0.09571	96	80-120	73-127	
Selenium	0.1000	0.1032	103	80-120	73-127	
Silver	0.05000	0.04933	99	80-120	73-127	
Thallium	0.1000	0.09890	99	80-120	73-127	
Zinc	0.1000	0.1020	102	80-120	73-127	
Aluminum	0.1000	0.1038	104	80-120	73-127	
Iron	5.100	4.940	97	80-120	73-127	
Manganese	0.1000	0.09943	99	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	09/18/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-1440
San Antonio, TX 78249-1618		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A
Project: EAA 27122			Page 8 of 15

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-763-621	**LCS**	**Aqueous**	**Mercury 04**	**09/23/15**	**09/23/15 20:58**	**150923LA4F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.008671	87	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8081A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-843	**LCS**	**Aqueous**	**GC 44**	**09/21/15**	**09/26/15 08:39**	**150921L11**
099-12-529-843	**LCSD**	**Aqueous**	**GC 44**	**09/21/15**	**09/26/15 08:53**	**150921L11**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.4263	85	0.4453	89	50-135	36-149	4	0-25	
Gamma-BHC	0.5000	0.4506	90	0.4694	94	50-135	36-149	4	0-25	
Beta-BHC	0.5000	0.4293	86	0.4537	91	50-135	36-149	6	0-25	
Heptachlor	0.5000	0.4298	86	0.4113	82	50-135	36-149	4	0-25	
Delta-BHC	0.5000	0.4937	99	0.5280	106	50-135	36-149	7	0-25	
Aldrin	0.5000	0.4004	80	0.3687	74	50-135	36-149	8	0-25	
Heptachlor Epoxide	0.5000	0.4287	86	0.4403	88	50-135	36-149	3	0-25	
Endosulfan I	0.5000	0.4440	89	0.4578	92	50-135	36-149	3	0-25	
Dieldrin	0.5000	0.4506	90	0.4658	93	50-135	36-149	3	0-25	
4,4'-DDE	0.5000	0.4374	87	0.4433	89	50-135	36-149	1	0-25	
Endrin	0.5000	0.3748	75	0.3789	76	50-135	36-149	1	0-25	
Endrin Aldehyde	0.5000	0.5100	102	0.5388	108	50-135	36-149	5	0-25	
4,4'-DDD	0.5000	0.4376	88	0.4525	90	50-135	36-149	3	0-25	
Endosulfan II	0.5000	0.4390	88	0.4568	91	50-135	36-149	4	0-25	
4,4'-DDT	0.5000	0.4495	90	0.4384	88	50-135	36-149	3	0-25	
Endosulfan Sulfate	0.5000	0.4345	87	0.4506	90	50-135	36-149	4	0-25	
Methoxychlor	0.5000	0.4271	85	0.4426	89	50-135	36-149	4	0-25	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8082

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1091	**LCS**	**Aqueous**	**GC 58**	**09/21/15**	**09/24/15 22:38**	**150921L12**
099-12-533-1091	**LCSD**	**Aqueous**	**GC 58**	**09/21/15**	**09/24/15 22:57**	**150921L12**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	2.432	122	2.517	126	50-135	3	0-25	
Aroclor-1260	2.000	2.486	124	2.585	129	50-135	4	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8141A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-963-112	**LCS**	**Aqueous**	**GC 35**	**09/19/15**	**09/23/15 14:33**	**150919L09**
099-15-963-112	**LCSD**	**Aqueous**	**GC 35**	**09/19/15**	**09/23/15 15:19**	**150919L09**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	0.04000	0.04073	102	0.04139	103	30-130	13-147	2	0-30	
Bolstar	0.04000	0.03779	94	0.03829	96	30-130	13-147	1	0-30	
Chlorpyrifos	0.04000	0.03598	90	0.03645	91	30-130	13-147	1	0-30	
Coumaphos	0.04000	0.03619	90	0.03684	92	30-130	13-147	2	0-30	
Diazinon	0.04000	0.03756	94	0.03788	95	30-130	13-147	1	0-30	
Disulfoton	0.04000	0.03861	97	0.03886	97	30-130	13-147	1	0-30	
Ethoprop	0.04000	0.04308	108	0.04449	111	30-130	13-147	3	0-30	
Fensulfothion	0.04000	0.03812	95	0.03892	97	30-130	13-147	2	0-30	
Fenthion	0.04000	0.03851	96	0.03923	98	30-130	13-147	2	0-30	
Merphos	0.04000	0.06826	171	0.07033	176	30-130	13-147	3	0-30	X
Methyl Parathion	0.04000	0.03454	86	0.03737	93	30-130	13-147	8	0-30	
Phorate	0.04000	0.04601	115	0.04677	117	30-130	13-147	2	0-30	
Ronnel	0.04000	0.03550	89	0.03624	91	30-130	13-147	2	0-30	
Stirophos	0.04000	0.03865	97	0.03944	99	30-130	13-147	2	0-30	
Tokuthion	0.04000	0.03599	90	0.03640	91	30-130	13-147	1	0-30	
Trichloronate	0.04000	0.03823	96	0.03872	97	30-130	13-147	1	0-30	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 8151A
Method: EPA 8151A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-034-660	**LCS**	**Aqueous**	**GC 40**	**09/23/15**	**09/25/15 13:03**	**150923L05**
095-01-034-660	**LCSD**	**Aqueous**	**GC 40**	**09/23/15**	**09/25/15 13:26**	**150923L05**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	20.00	23.52	118	24.08	120	30-130	2	0-30	
2,4,5-T	2.000	2.195	110	2.275	114	30-130	4	0-30	
2,4-DB	20.00	21.98	110	22.76	114	30-130	3	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 3510C
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-4108	**LCS**	**Aqueous**	**GC/MS SS**	**09/22/15**	**09/24/15 10:28**	**150922L04**
095-01-003-4108	**LCSD**	**Aqueous**	**GC/MS SS**	**09/22/15**	**09/24/15 10:48**	**150922L04**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	200.0	177.4	89	178.3	89	61-120	51-130	1	0-20	
Acenaphthylene	200.0	176.7	88	177.8	89	55-120	44-131	1	0-20	
Butyl Benzyl Phthalate	200.0	186.0	93	187.4	94	56-122	45-133	1	0-20	
4-Chloro-3-Methylphenol	200.0	197.2	99	195.0	97	52-120	41-131	1	0-20	
2-Chlorophenol	200.0	194.9	97	195.3	98	47-120	35-132	0	0-20	
1,4-Dichlorobenzene	200.0	164.0	82	166.8	83	36-120	22-134	2	0-20	
Dimethyl Phthalate	200.0	184.5	92	184.7	92	60-120	50-130	0	0-20	
2,4-Dinitrotoluene	200.0	209.3	105	208.9	104	61-121	51-131	0	0-20	
Fluorene	200.0	179.9	90	179.8	90	67-120	58-129	0	0-20	
N-Nitroso-di-n-propylamine	200.0	184.0	92	178.7	89	39-123	25-137	3	0-20	
Naphthalene	200.0	167.7	84	168.1	84	54-120	43-131	0	0-20	
4-Nitrophenol	200.0	95.21	48	93.28	47	14-120	0-138	2	0-20	
Pentachlorophenol	200.0	187.7	94	182.2	91	31-127	15-143	3	0-20	
Phenol	200.0	94.78	47	92.49	46	17-120	0-137	2	0-20	
Pyrene	200.0	180.9	90	181.4	91	58-124	47-135	0	0-20	
1,2,4-Trichlorobenzene	200.0	168.0	84	170.8	85	49-120	37-132	2	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 09/18/15
Work Order: 15-09-1440
Preparation: EPA 5030C
Method: EPA 8260B

Project: EAA 27122

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-18227	**LCS**	**Aqueous**	**GC/MS JJ**	**09/22/15**	**09/22/15 09:26**	**150922L002**
099-14-001-18227	**LCSD**	**Aqueous**	**GC/MS JJ**	**09/22/15**	**09/22/15 09:54**	**150922L002**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	52.15	104	49.24	98	80-120	73-127	6	0-20	
Carbon Tetrachloride	50.00	55.86	112	51.11	102	67-139	55-151	9	0-20	
Chlorobenzene	50.00	51.12	102	49.64	99	78-120	71-127	3	0-20	
1,2-Dibromoethane	50.00	49.28	99	50.60	101	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	50.00	50.68	101	49.33	99	63-129	52-140	3	0-20	
1,2-Dichloroethane	50.00	54.76	110	54.49	109	70-130	60-140	0	0-20	
1,1-Dichloroethene	50.00	50.86	102	46.28	93	66-126	56-136	9	0-20	
Ethylbenzene	50.00	52.85	106	50.23	100	80-123	73-130	5	0-20	
Toluene	50.00	54.66	109	51.45	103	80-120	73-127	6	0-20	
Trichloroethene	50.00	53.61	107	50.73	101	80-122	73-129	6	0-20	
Vinyl Chloride	50.00	41.24	82	36.88	74	70-130	60-140	11	0-20	
p/m-Xylene	100.0	108.0	108	102.1	102	75-123	67-131	6	0-20	
o-Xylene	50.00	53.51	107	51.25	102	74-122	66-130	4	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	52.43	105	54.32	109	69-129	59-139	4	0-20	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	09/18/15
6200 UTSA Blvd., Suite 102		Work Order:	15-09-1440
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 15 of 15

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-18261	**LCS**	**Aqueous**	**GC/MS LL**	**09/24/15**	**09/24/15 11:00**	**150924L008**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	46.16	92	80-120	73-127	
Carbon Tetrachloride	50.00	41.87	84	67-139	55-151	
Chlorobenzene	50.00	49.23	98	78-120	71-127	
1,2-Dibromoethane	50.00	48.25	96	80-120	73-127	
1,2-Dichlorobenzene	50.00	50.45	101	63-129	52-140	
1,2-Dichloroethane	50.00	43.32	87	70-130	60-140	
1,1-Dichloroethene	50.00	43.81	88	66-126	56-136	
Ethylbenzene	50.00	51.36	103	80-123	73-130	
Toluene	50.00	49.48	99	80-120	73-127	
Trichloroethene	50.00	46.13	92	80-122	73-129	
Vinyl Chloride	50.00	46.70	93	70-130	60-140	
p/m-Xylene	100.0	99.79	100	75-123	67-131	
o-Xylene	50.00	49.95	100	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	48.41	97	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-09-1440 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 300.0	N/A	1027	IC 10	1
EPA 365.1	N/A	650	ACA 1	1
EPA 6010B	EPA 3005A Filt.	935	ICP 7300	1
EPA 6020	EPA 3005A Filt.	598	ICP/MS 03	1
EPA 7470A	EPA 7470A Filt.	915	Mercury 04	1
EPA 8081A	EPA 3510C	669	GC 44	1
EPA 8082	EPA 3510C	669	GC 58	1
EPA 8141A	EPA 3510C	960	GC 35	1
EPA 8151A	EPA 8151A	944	GC 40	1
EPA 8260B	EPA 5030C	966	GC/MS LL	2
EPA 8260B	EPA 5030C	996	GC/MS JJ	2
EPA 8270C	EPA 3510C	923	GC/MS SS	1
SM 2320B	N/A	688	PH1/BUR03	1
SM 2540 C	N/A	1009	SC 2	1
SM 2540 D	N/A	689	N/A	1
SM 4500 H+ B	N/A	688	PH 1	1
SM 4500 N Org B	N/A	685	BUR05	1

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Glossary of Terms and Qualifiers

Work Order: 15-09-1440 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY RECORD

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

WO # / LAB USE ONLY: **15-09-1440**

DATE: 09/17/15

PAGE: ( ) OF ( )

LABORATORY CLIENT: SWCA Environmental Consultants	CLIENT PROJECT NAME / NUMBER: EAA 27122
ADDRESS: 6200 UTSA Blvd. Suite 102	P.O. NO.: 27122.02.06
CITY: San Antonio STATE: TX ZIP: 78249-1618	PROJECT CONTACT: Philip Pearce
TEL: 210.877.2847 E-MAIL: PPearce@swca.com	SAMPLER(S): (PRINT) Jennifer Moreland and Brittany Rios

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 10 Days (standard)

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:

Samples for EPA 6010B, EPA 6020, and EPA 7470 Metals are field filtered

EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn
Please also analyze each sample for pH

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 6010B (Si, Ca, Mg, K, Na, Sr)	EPA 6020 (See Comments)	EPA 7470A Mercury	EPA 1694 (M) Caffeine	EPA 8081A Organochlorine Pesticides	EPA 8082 PCB Aroclors	EPA 8141A Organophosphorus Pest	EPA 8151A Chlorinated Herbicides	EPA 8270C Semi-Volatile Organics	EPA 8260B Volatile Organics	EPA 300 Anions (F, Cl, Br, NO3, SO4)	EPA 365.1 Total Phosphorus	SM 2320B Alkalinity: Total, Bicarb, Carb	SM 5310B TOC	SM 5310B DOC	SM 5310B Solids, Total Dissolved	SM 4500 N Org B TKN	EPA 160.2 TSS
1	HSM110	9/17/2015	1053	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
2	FDHSM110	9/17/2015	1053	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
3	HSM120	9/17/2015	1130	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4	HSM130	9/17/2015	1157	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5	HSM140	9/17/2015	1224	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
6	HSM150	9/17/2015	1251	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
7	HSM160	9/17/2015	1318	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8	HSM170	9/17/2015	1347	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
9	TB12	9/17/2015	NA	NPW	1													X								
1																										

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 9/17/15	Time: 18:15
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 9/18/15	Time: 1000

06/02/14 Revision

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1440

ORIGIN ID:SATA (210) 877-2847
SWCA INC
6200 UTSA BLVD STE 102
SAN ANTONIO, TX 782491618
UNITED STATES US

SHIP DATE: 17SEP15
ACTWGT: 55.0 LB
CAD: /OFFC1601
DIMS: 24x13x14 IN
BILL SENDER

TO DON BURLEY
EUROFINS CALSCIENCE INC
7440 LINCOLN WAY

GARDEN GROVE CA 92841
(714) 895-5494 REF:
INV: PO: DEPT:

FedEx Express

J151215030301ar

1 of 8
TRK# 0215 8079 4368 0339
MASTER
A7 APVA
FRI - 18 SEP AA
STANDARD OVERNIGHT
DSR
92841
CA-US SNA

5 of 8
MPS# 0681 7813 5320 5609
Mstr# 8079 4368 0339
0215
A7 APVA
FRI - 18 SEP AA
STANDARD OVERNIGHT
DSR
92841
CA-US SNA

4 of 8
MPS# 0681 7813 5320 5594
Mstr# 8079 4368 0339
0215
A7 APVA
FRI - 18 SEP AA
STANDARD OVERNIGHT
DSR
92841
CA-US SN

3 of 8
MPS# 0681 7813 5320 5583
Mstr# 8079 4368 0339
0215
A7 APVA
FRI - 18 SEP AA
STANDARD OVERNIGHT
DSR
92841
CA-US SNA

6 of 8
MPS# 0681 7813 5320 5610
Mstr# 8079 4368 0339
0215
A7 APVA
FRI - 18 SEP AA
STANDARD OVERNIGHT
DSR
92841
CA-US SNA

8 of 8
MPS# 0681 7813 5320 5631
Mstr# 8079 4368 0339
0215
A7 APVA
FRI - 18 SEP AA
STANDARD OVERNIGHT
DSR
92841
CA-US SNA

7 of 8
MPS# 0681 7813 5320 5620
Mstr# 8079 4368 0339
0215
A7 APVA
FRI - 18 SEP AA
STANDARD OVERNIGHT
DSR
92841
CA-US SNA

2 of 8
MPS# 0681 7813 5320 5572
Mstr# 8079 4368 0339
0215
A7 APVA
FRI - 18 SEP AA
STANDARD OVERNIGHT
DSR
92841
CA-US SNA

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WORK ORDER NUMBER: 15-09- 1440

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 8

CLIENT: SWCA

DATE: 09 / 18 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 2.4 °C (w/ CF): 2.2 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1013

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: S (Trip Blank Lot Number: 150831A)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 gal. Cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: 689

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WORK ORDER NUMBER: 15-09- 1440

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 8

CLIENT: SWCA

DATE: 09 / 18 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 2.7 °C (w/ CF): 2.5 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1013

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: 5 (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: 659

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WORK ORDER NUMBER: 15-09- 1440

SAMPLE RECEIPT CHECKLIST

COOLER 3 OF 8

CLIENT: SWCA

DATE: 09 / 18 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 2.8 °C (w/ CF): 2.6 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1013

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: 5 (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: 659

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WORK ORDER NUMBER: 15-09- 1440

SAMPLE RECEIPT CHECKLIST

COOLER 4 OF 8

CLIENT: SWCA

DATE: 09 / 18 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 3.1 °C (w/ CF): 2.9 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: lds

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: 5 (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: lds

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: bly

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WORK ORDER NUMBER: 15-09- 1440

SAMPLE RECEIPT CHECKLIST

COOLER 5 OF 8

CLIENT: SWCA

DATE: 09 / 18 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 3.3 °C (w/ CF): 3.1 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1013

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: 5 (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGBna_2 ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: 659

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WORK ORDER NUMBER: 15-09- 1440

SAMPLE RECEIPT CHECKLIST

COOLER 6 OF 8

CLIENT: SWCA

DATE: 09 / 18 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 2.5 °C (w/ CF): 2.3 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1013

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: S (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGBna_2 ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: 659

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WORK ORDER NUMBER: 15-09- 1440

SAMPLE RECEIPT CHECKLIST

COOLER 7 OF 8

CLIENT: SWCA

DATE: 09 / 18 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 2.7 °C (w/ CF): 2.5 °C; ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☒ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A Checked by: 1013

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: S (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☑ 250CGBs ☐ 250PB ☑ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☑ 1AGB ☐ 1AGBna_2 ☑ 1AGBs ☐ 1PB ☐ 1PBna ☑ 2.5 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1012

Reviewed by: 619

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WORK ORDER NUMBER: 15-09- 1440

SAMPLE RECEIPT CHECKLIST

COOLER 8 OF 8

CLIENT: SWCA

DATE: 09 / 18 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC5 (CF:-0.2°C); Temperature (w/o CF): 3.4 °C (w/ CF): 3.2 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1013

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: 5 (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: 659

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WORK ORDER NUMBER: 15-09- 1440

SAMPLE ANOMALY REPORT

DATE: 09 / 18 / 2015

SAMPLES, CONTAINERS, AND LABELS:

Comments

- ☐ Sample(s) NOT RECEIVED but listed on COC
- ☐ Sample(s) received but NOT LISTED on COC
- ☐ Holding time expired (list client or ECI sample ID and analysis)
- ☐ Insufficient sample amount for requested analysis (list analysis)
- ☐ Improper container(s) used (list analysis)
- ☐ Improper preservative used (list analysis)
- ☐ No preservative noted on COC or label (list analysis and notify lab)
- ☐ Sample container(s) not labeled
- ☐ Client sample label(s) illegible (list container type and analysis)
- ☑ Client sample label(s) do not match COC (comment)
  - ☐ Project information
  - ☑ Client sample ID
  - ☐ Sampling date and/or time
  - ☑ Number of container(s)
  - ☐ Requested analysis
- ☐ Sample container(s) compromised (comment)
  - ☐ Broken
  - ☐ Water present in sample container
- ☐ Air sample container(s) compromised (comment)
  - ☐ Flat
  - ☐ Very low in volume
  - ☐ Leaking (not transferred; duplicate bag submitted)
  - ☐ Leaking (transferred into ECI Tedlar™ bags*)
  - ☐ Leaking (transferred into client's Tedlar™ bags*)

* Transferred at client's request.

(-2) 25 Gallon cube labeled as FDHSM210

(-1) to (-8) Received 11 Containers instead of 9

MISCELLANEOUS: (Describe)

Comments

HEADSPACE:

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**

(Containers with bubble for other analysis)

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis

Comments: _____

Reported by: 1913

Reviewed by: 619

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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Subcontractor Analysis Report

Work Order: 15-09-1440 Page 1 of 1

One or more samples in this work order have tests that were subcontracted. The subcontract report(s) follows.

For subcontracted tests, please reference the laboratory information noted below.

1. McCampbell Analytical, Inc. - Pittsburg,CA CA ELAP 1644
   TOC
2. ALS - Columbia Analytical Services, Inc. - Kelso,WA CA ELAP 2286, NELAP WA100010
   Method 1694 Caffeine

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McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1509817

Report Created for: Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841

Project Contact: Don Burley
Project P.O.:
Project Name: 15-09-1440

Project Received: 09/22/2015

Analytical Report reviewed & approved for release on 09/25/2015 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

McCampbell Analytical, Inc.
"When Quality Counts"
1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Eurofins Calscience, Inc.
Project: 15-09-1440
WorkOrder: 1509817

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	Eurofins Calscience, Inc.	**WorkOrder:**	1509817
Date Received:	9/22/15 12:55	**Extraction Method:**	SM5310 B-2000
Date Prepared:	9/22/15	**Analytical Method:**	SM5310 B-2000
Project:	15-09-1440	**Unit:**	mg/L

Dissolved Organic Carbon (DOC)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HSM110	1509817-001B	Water	09/17/2015 10:53	WC_CNS	110537

Analytes	Result	MDL	RL	DF	Date Analyzed
Dissolved Organic Carbon	**1.1**	0.70	0.70	1	09/22/2015 20:02

Analyst(s): AV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
FDHSM110	1509817-002B	Water	09/17/2015 10:53	WC_CNS	110537

Analytes	Result	MDL	RL	DF	Date Analyzed
Dissolved Organic Carbon	**1.2**	0.70	0.70	1	09/22/2015 20:30

Analyst(s): AV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HSM120	1509817-003B	Water	09/17/2015 11:30	WC_CNS	110537

Analytes	Result	MDL	RL	DF	Date Analyzed
Dissolved Organic Carbon	ND	0.70	0.70	1	09/22/2015 22:51

Analyst(s): AV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HSM130	1509817-004B	Water	09/17/2015 11:57	WC_CNS	110537

Analytes	Result	MDL	RL	DF	Date Analyzed
Dissolved Organic Carbon	ND	0.70	0.70	1	09/22/2015 23:21

Analyst(s): AV

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(Cont.)

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

Angela Rydelius, Lab Manager

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Analytical Report

Client:	Eurofins Calscience, Inc.	**WorkOrder:**	1509817
Date Received:	9/22/15 12:55	**Extraction Method:**	SM5310 B-2000
Date Prepared:	9/22/15	**Analytical Method:**	SM5310 B-2000
Project:	15-09-1440	**Unit:**	mg/L

Dissolved Organic Carbon (DOC)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HSM140	1509817-005B	Water	09/17/2015 12:24	WC_CNS	110537

Analytes	Result	MDL	RL	DF	Date Analyzed
Dissolved Organic Carbon	ND	0.70	0.70	1	09/23/2015 00:02

Analyst(s): AV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HSM150	1509817-006B	Water	09/17/2015 12:51	WC_CNS	110537

Analytes	Result	MDL	RL	DF	Date Analyzed
Dissolved Organic Carbon	ND	0.70	0.70	1	09/23/2015 00:31

Analyst(s): AV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HSM160	1509817-007B	Water	09/17/2015 13:18	WC_CNS	110537

Analytes	Result	MDL	RL	DF	Date Analyzed
Dissolved Organic Carbon	ND	0.70	0.70	1	09/23/2015 01:14

Analyst(s): AV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HSM170	1509817-008B	Water	09/17/2015 13:47	WC_CNS	110537

Analytes	Result	MDL	RL	DF	Date Analyzed
Dissolved Organic Carbon	ND	0.70	0.70	1	09/23/2015 03:20

Analyst(s): AV

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Analytical Report

Client: Eurofins Calscience, Inc.
Date Received: 9/22/15 12:55
Date Prepared: 9/22/15
Project: 15-09-1440

WorkOrder: 1509817
Extraction Method: SM5310 Bm-2000
Analytical Method: SM5310 Bm-2000
Unit: mg/L

Total Organic Carbon (TOC)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HSM110	1509817-001A	Water	09/17/2015 10:53	WC_CNS	110537

Analytes	Result	MDL	RL	DF	Date Analyzed
TOC	**1.4**	0.070	0.30	1	09/22/2015 20:17

Analyst(s): AV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
FDHSM110	1509817-002A	Water	09/17/2015 10:53	WC_CNS	110537

Analytes	Result	MDL	RL	DF	Date Analyzed
TOC	**1.4**	0.070	0.30	1	09/22/2015 20:43

Analyst(s): AV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HSM120	1509817-003A	Water	09/17/2015 11:30	WC_CNS	110537

Analytes	Result	MDL	RL	DF	Date Analyzed
TOC	**0.86**	0.070	0.30	1	09/22/2015 23:08

Analyst(s): AV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HSM130	1509817-004A	Water	09/17/2015 11:57	WC_CNS	110537

Analytes	Result	MDL	RL	DF	Date Analyzed
TOC	**0.68**	0.070	0.30	1	09/22/2015 23:35

Analyst(s): AV

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(Cont.)

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

Angela Rydelius, Lab Manager

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Analytical Report

Client:	Eurofins Calscience, Inc.	**WorkOrder:**	1509817
Date Received:	9/22/15 12:55	**Extraction Method:**	SM5310 Bm-2000
Date Prepared:	9/22/15	**Analytical Method:**	SM5310 Bm-2000
Project:	15-09-1440	**Unit:**	mg/L

Total Organic Carbon (TOC)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HSM140	1509817-005A	Water	09/17/2015 12:24	WC_CNS	110537

Analytes	Result	MDL	RL	DF	Date Analyzed
TOC	**0.81**	0.070	0.30	1	09/23/2015 00:18

Analyst(s): AV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HSM150	1509817-006A	Water	09/17/2015 12:51	WC_CNS	110537

Analytes	Result	MDL	RL	DF	Date Analyzed
TOC	**0.92**	0.070	0.30	1	09/23/2015 00:46

Analyst(s): AV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HSM160	1509817-007A	Water	09/17/2015 13:18	WC_CNS	110537

Analytes	Result	MDL	RL	DF	Date Analyzed
TOC	**0.93**	0.070	0.30	1	09/23/2015 01:30

Analyst(s): AV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HSM170	1509817-008A	Water	09/17/2015 13:47	WC_CNS	110537

Analytes	Result	MDL	RL	DF	Date Analyzed
TOC	**1.2**	0.070	0.30	1	09/23/2015 03:37

Analyst(s): AV

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Quality Control Report

Client:	Eurofins Calscience, Inc.	**WorkOrder:**	1509817
Date Prepared:	9/22/15	**BatchID:**	110537
Date Analyzed:	9/22/15	**Extraction Method:**	SM5310 B-2000
Instrument:	WC_CNS	**Analytical Method:**	SM5310 B-2000
Matrix:	Water	**Unit:**	mg/L
Project:	15-09-1440	**Sample ID:**	MB/LCS-110537 1509726-007AMS/MSD

QC Summary Report for SM5310B

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TOC	ND	48.8	0.18	0.30	50	-	98	80-120

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TOC	49.2	51.6	50	ND	97	102	70-130	4.68	20

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1534 Willow Pass Rd
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(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1509817 **ClientCode: CSEL**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☑ J-flag

Report to:
Don Burley
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841
(714) 895-5494 FAX: (714) 894-7501

Email: donaldburley@eurofinsUS.com
cc/3rd Party:
PO:
ProjectNo: 15-09-1440

Bill to:
Accounts Payable
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Requested TAT: 5 days;

Date Received: **09/22/2015**
Date Printed: **09/22/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1509817-001	HSM110	Water	9/17/2015 10:53	☐	B	A	B									
1509817-002	FDHSM110	Water	9/17/2015 10:53	☐	B	A	B									
1509817-003	HSM120	Water	9/17/2015 11:30	☐	B	A	B									
1509817-004	HSM130	Water	9/17/2015 11:57	☐	B	A	B									
1509817-005	HSM140	Water	9/17/2015 12:24	☐	B	A	B									
1509817-006	HSM150	Water	9/17/2015 12:51	☐	B	A	B									
1509817-007	HSM160	Water	9/17/2015 13:18	☐	B	A	B									
1509817-008	HSM170	Water	9/17/2015 13:47	☐	B	A	B									

Test Legend:

1	cnsDOC_5310B_W	2	cnsTOC_5310B_W	3	PRDISSOLVED	4	
5		6		7		8	
9		10		11		12	

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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McCampbell Analytical, Inc.
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WORK ORDER SUMMARY

Client Name: EUROFINS CALSCIENCE, INC.
Project: 15-09-1440
Comments:

QC Level: LEVEL 2
Client Contact: Don Burley
Contact's Email: donaldburley@eurofinsUS.com

Work Order: 1509817
Date Received: 9/22/2015

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☑ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1509817-001A	HSM110	Water	SM5310Bm (TOC)	1	250mL G w/ H2SO4	☐	9/17/2015 10:53	5 days	Present	☐	
1509817-001B	HSM110	Water	SM5310B (DOC)	1	250mL G	☐	9/17/2015 10:53	5 days	Present	☐	
1509817-002A	FDHSM110	Water	SM5310Bm (TOC)	1	250mL G w/ H2SO4	☐	9/17/2015 10:53	5 days	Present	☐	
1509817-002B	FDHSM110	Water	SM5310B (DOC)	1	250mL G	☐	9/17/2015 10:53	5 days	Present	☐	
1509817-003A	HSM120	Water	SM5310Bm (TOC)	1	250mL G w/ H2SO4	☐	9/17/2015 11:30	5 days	Trace	☐	
1509817-003B	HSM120	Water	SM5310B (DOC)	1	250mL G	☐	9/17/2015 11:30	5 days	Trace	☐	
1509817-004A	HSM130	Water	SM5310Bm (TOC)	1	250mL G w/ H2SO4	☐	9/17/2015 11:57	5 days	None	☐	
1509817-004B	HSM130	Water	SM5310B (DOC)	1	250mL G	☐	9/17/2015 11:57	5 days	None	☐	
1509817-005A	HSM140	Water	SM5310Bm (TOC)	1	250mL G w/ H2SO4	☐	9/17/2015 12:24	5 days	Present	☐	
1509817-005B	HSM140	Water	SM5310B (DOC)	1	250mL G	☐	9/17/2015 12:24	5 days	Present	☐	
1509817-006A	HSM150	Water	SM5310Bm (TOC)	1	250mL G w/ H2SO4	☐	9/17/2015 12:51	5 days	Present	☐	
1509817-006B	HSM150	Water	SM5310B (DOC)	1	250mL G	☐	9/17/2015 12:51	5 days	Present	☐	
1509817-007A	HSM160	Water	SM5310Bm (TOC)	1	250mL G w/ H2SO4	☐	9/17/2015 13:18	5 days	Present	☐	
1509817-007B	HSM160	Water	SM5310B (DOC)	1	250mL G	☐	9/17/2015 13:18	5 days	Present	☐	
1509817-008A	HSM170	Water	SM5310Bm (TOC)	1	250mL G w/ H2SO4	☐	9/17/2015 13:47	5 days	Present	☐	
1509817-008B	HSM170	Water	SM5310B (DOC)	1	250mL G	☐	9/17/2015 13:47	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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1509817

CHAIN OF CUSTODY RECORD

To: McCampbell

DATE: 09/21/15

PAGE: 1 OF 1

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

LABORATORY CLIENT: Eurofins Calscience, Inc.	CLIENT PROJECT NAME / NUMBER: 15-09-1440
ADDRESS: 7440 Lincoln Way	P.O. NO.: 15-09-1440
CITY: Garden Grove STATE: CA ZIP: 92841-1427	PROJECT CONTACT: Don Burley
TEL: 714-895-5494 E-MAIL: DonaldBurley@eurofinsUS.com	SAMPLER(S): (PRINT) N/A

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
SAME DAY 24 HR 48 HR 72 HR 5 DAYS **X STANDARD**

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:

Please report to MDLs (J-flag)

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	SM 5310 B TOC	SM 5310 B DOC
1	HSM110	09/17/15	10:53	W	2	X	X		X	X
2	FDHSM110	09/17/15	10:53	W	2	X	X		X	X
3	HSM120	09/17/15	11:30	W	2	X	X		X	X
4	HSM130	09/17/15	11:57	W	2	X	X		X	X
5	HSM140	09/17/15	12:24	W	2	X	X		X	X
6	HSM150	09/17/15	12:51	W	2	X	X		X	X
7	HSM160	09/17/15	13:18	W	2	X	X		X	X
8	HSM170	09/17/15	13:47	W	2	X	X		X	X

PRESERVATION: VOAS | O&G | METALS | OTHER

Relinquished by: (Signature)	Received by: (Signature/Affiliation) GSO 529339395	Date: 9/21/15	Time: 1535
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 9/22/15	Time: 0955

06/02/14 Revision

McCampbell Analytical, Inc.
"When Quality Counts"
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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
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Sample Receipt Checklist

Client Name: **Eurofins Calscience, Inc.**
Date and Time Received: **9/22/2015 12:55:08 PM**
Project Name: **15-09-1440**
LogIn Reviewed by: Maria Venegas
WorkOrder №: **1509817** Matrix: Water
Carrier: Golden State Overnight

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 1.2°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

** NOTE: If the "No" box is checked, see comments below.*

Comments:

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ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
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www.alsglobal.com

October 19, 2015 **Analytical Report for Service Request No:** K1510500

Donald Burley
Calscience Environmental Laboratories, Incorporated
7440 Lincoln Way
Garden Grove, CA 92841

RE: 15-09-1440

Dear Donald,

Enclosed are the results of the sample(s) submitted to our laboratory September 22, 2015
For your reference, these analyses have been assigned our service request number **K1510500.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3364. You may also contact me via email at howard.holmes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Howard Holmes
Project Manager

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

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ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

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Chain of Custody

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K1510500

CHAIN OF CUSTODY RECORD

To: ALS - Kelso

DATE: 09/21/15

PAGE: 1 OF 1

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

LABORATORY CLIENT: Eurofins Calscience, Inc.	CLIENT PROJECT NAME / NUMBER: 15-09-1440
ADDRESS: 7440 Lincoln Way	PO NO.: 15-09-1440
CITY: Garden Grove STATE: CA ZIP: 92841-1427	PROJECT CONTACT: Don Burley
TEL: 714-895-5494 E-MAIL: DonaldBurley@eurofinsUS.com	SAMPLER(S) (PRINT): N/A

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
SAME DAY 24 HR 48 HR 72 HR 5 DAYS **X STANDARD**

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 1694 Caffeine
1	HSM110	09/17/15	10:53	W	1	X			X
2	FDHSM110	09/17/15	10:53	W	1	X			X
3	HSM120	09/17/15	11:30	W	1	X			X
4	HSM130	09/17/15	11:57	W	1	X			X
5	HSM140	09/17/15	12:24	W	1	X			X
6	HSM150	09/17/15	12:51	W	1	X			X
7	HSM160	09/17/15	13:18	W	1	X			X
8	HSM170	09/17/15	13:47	W	1	X			X

Relinquished by: (Signature)	Received by: (Signature/Affiliation) Fedex 774561083047	Date: 9/21/15	Time: 1615
Relinquished by: (Signature)	Received by: (Signature/Affiliation) Kelly Reed / ALS	Date: 9/22/15	Time: 09:10

06/02/14 Revision

PC H2

Cooler Receipt and Preservation Form

Client / Project: Eurofins Calscience, INC Service Request K15 10500

Received: 9/22/15 Opened: 9/22/15 By: KR Unloaded: 9/22/15 By: KR

1. Samples were received via? *Mail* (*Fed Ex*) *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other*_____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1 F
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID (NA)	Tracking Number NA	Filed
-0.5	-0.2	—	—	+0.3	361		7745 6108 3017	

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *GelPacks* (*Wet Ice*) *Dry Ice* *Sleeves* large plastic bag
5. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA (Y) N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA (Y) N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA (Y) N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
12. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

*Notes, Discrepancies, & Resolutions:*_____

*Page*____ *of*____

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Steroids and Endocrine Disrupting Compounds

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WORK ORDER NUMBER: 15-06-0463

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: SWCA Environmental Consultants

Client Project Name: EAA 27122

Attention: Philip Pearce
6200 UTSA Blvd.
Suite 102
San Antonio, TX 78249-1618

FOR

Approved for release on 06/19/2015 by:
Don Burley
Project Manager

ResultLink

Email your PM

ACCREDITED IN ACCORDANCE WITH nelac

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Contents

Client Project Name: EAA 27122
Work Order Number: 15-06-0463

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Work Order Narrative

Work Order: 15-06-0463 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 06/05/15. They were assigned to Work Order 15-06-0463.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	SWCA Environmental Consultants	Work Order:	15-06-0463
	6200 UTSA Blvd., Suite 102	Project Name:	EAA 27122
	San Antonio, TX 78249-1618	PO Number:	
		Date/Time Received:	06/05/15 09:40
		Number of Containers:	13
Attn:	Philip Pearce		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
HCS310	15-06-0463-1	06/04/15 11:22	2	Solid
HCS320	15-06-0463-2	06/04/15 11:43	2	Solid
HCS330	15-06-0463-3	06/04/15 12:20	2	Solid
HCS340	15-06-0463-4	06/04/15 13:57	2	Solid
HCS360	15-06-0463-5	06/04/15 14:24	2	Solid
FDHCS360	15-06-0463-6	06/04/15 14:24	2	Solid
TB07	15-06-0463-7	06/04/15 00:00	1	Aqueous

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: N/A
Method: EPA 300.0
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS310	**15-06-0463-1-B**	**06/04/15 11:22**	**Solid**	**IC 10**	**06/10/15**	**06/11/15 00:54**	**150610L01P**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Fluoride	ND	1.2	1.00	
Chloride	ND	12	1.00	
Bromide	ND	1.2	1.00	
Nitrate (as N)	ND	1.2	1.00	
Sulfate	56	12	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS320	**15-06-0463-2-B**	**06/04/15 11:43**	**Solid**	**IC 10**	**06/10/15**	**06/11/15 01:10**	**150610L01P**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Fluoride	1.6	1.4	1.00	
Chloride	ND	14	1.00	
Bromide	ND	1.4	1.00	
Nitrate (as N)	2.4	1.4	1.00	
Sulfate	26	14	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS330	**15-06-0463-3-B**	**06/04/15 12:20**	**Solid**	**IC 10**	**06/10/15**	**06/11/15 01:26**	**150610L01P**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Fluoride	2.3	1.4	1.00	
Chloride	ND	14	1.00	
Bromide	ND	1.4	1.00	
Nitrate (as N)	ND	1.4	1.00	
Sulfate	34	14	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: N/A
Method: EPA 300.0
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS340	**15-06-0463-4-B**	**06/04/15 13:57**	**Solid**	**IC 10**	**06/10/15**	**06/11/15 01:43**	**150610L01P**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Fluoride	2.7	2.3	1.00	
Chloride	33	23	1.00	
Bromide	ND	2.3	1.00	
Nitrate (as N)	ND	2.3	1.00	
Sulfate	63	23	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS360	**15-06-0463-5-B**	**06/04/15 14:24**	**Solid**	**IC 10**	**06/10/15**	**06/11/15 01:59**	**150610L01P**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Fluoride	3.1	2.0	1.00	
Chloride	22	20	1.00	
Bromide	ND	2.0	1.00	
Nitrate (as N)	ND	2.0	1.00	
Sulfate	49	20	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS360	**15-06-0463-6-B**	**06/04/15 14:24**	**Solid**	**IC 10**	**06/10/15**	**06/11/15 02:16**	**150610L01P**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Fluoride	3.2	2.0	1.00	
Chloride	22	20	1.00	
Bromide	ND	2.0	1.00	
Nitrate (as N)	ND	2.0	1.00	
Sulfate	68	20	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-922-584**	**N/A**	**Solid**	**IC 10**	**06/10/15**	**06/11/15 00:21**	**150610L01P**

Parameter	Result	RL	DF	Qualifiers
Fluoride	ND	1.0	1.00	
Chloride	ND	10	1.00	
Bromide	ND	1.0	1.00	
Nitrate (as N)	ND	1.0	1.00	
Sulfate	ND	10	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS310	**15-06-0463-1-AA**	**06/04/15 11:22**	**Solid**	**ICP 7300**	**06/10/15**	**06/11/15 16:45**	**150610L04**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Magnesium	1250	6.16	0.995	
Potassium	401	30.8	0.995	
Sodium	87.7	30.8	0.995	
Strontium	127	1.85	0.995	
Silicon	647	6.16	0.995	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS310	**15-06-0463-1-AA**	**06/04/15 11:22**	**Solid**	**ICP 7300**	**06/10/15**	**06/17/15 22:46**	**150610L04**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Calcium	249000	61.6	9.95	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS320	**15-06-0463-2-AA**	**06/04/15 11:43**	**Solid**	**ICP 7300**	**06/10/15**	**06/11/15 16:46**	**150610L04**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Magnesium	1900	7.16	1.02	
Potassium	456	35.8	1.02	
Sodium	353	35.8	1.02	
Strontium	235	2.15	1.02	
Silicon	803	7.16	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS320	**15-06-0463-2-AA**	**06/04/15 11:43**	**Solid**	**ICP 7300**	**06/10/15**	**06/17/15 22:48**	**150610L04**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Calcium	328000	71.6	10.2	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS330	**15-06-0463-3-AA**	**06/04/15 12:20**	**Solid**	**ICP 7300**	**06/10/15**	**06/11/15 16:48**	**150610L04**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Magnesium	3640	6.96	0.966	
Potassium	2410	34.8	0.966	
Sodium	152	34.8	0.966	
Strontium	255	2.09	0.966	
Silicon	2250	6.96	0.966	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS330	**15-06-0463-3-AA**	**06/04/15 12:20**	**Solid**	**ICP 7300**	**06/10/15**	**06/17/15 22:50**	**150610L04**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Calcium	168000	69.6	9.66	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS340	**15-06-0463-4-AA**	**06/04/15 13:57**	**Solid**	**ICP 7300**	**06/10/15**	**06/11/15 16:49**	**150610L04**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Magnesium	2320	11.8	1.04	
Potassium	1180	58.8	1.04	
Sodium	736	58.8	1.04	
Strontium	447	3.53	1.04	
Silicon	1680	11.8	1.04	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS340	**15-06-0463-4-AA**	**06/04/15 13:57**	**Solid**	**ICP 7300**	**06/10/15**	**06/17/15 22:51**	**150610L04**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Calcium	293000	118	10.4	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS360	**15-06-0463-5-AA**	**06/04/15 14:24**	**Solid**	**ICP 7300**	**06/10/15**	**06/11/15 16:50**	**150610L04**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Magnesium	3060	10.4	1.02	
Potassium	2300	52.2	1.02	
Sodium	207	52.2	1.02	
Strontium	199	3.13	1.02	
Silicon	1410	10.4	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS360	**15-06-0463-5-AA**	**06/04/15 14:24**	**Solid**	**ICP 7300**	**06/10/15**	**06/17/15 22:53**	**150610L04**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Calcium	146000	104	10.2	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS360	**15-06-0463-6-AA**	**06/04/15 14:24**	**Solid**	**ICP 7300**	**06/10/15**	**06/11/15 16:56**	**150610L04**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Magnesium	3560	10.5	1.03	
Potassium	2580	52.5	1.03	
Sodium	193	52.5	1.03	
Strontium	222	3.15	1.03	
Silicon	1690	10.5	1.03	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS360	**15-06-0463-6-AA**	**06/04/15 14:24**	**Solid**	**ICP 7300**	**06/10/15**	**06/17/15 22:55**	**150610L04**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Calcium	165000	105	10.3	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-21188**	**N/A**	**Solid**	**ICP 7300**	**06/10/15**	**06/11/15 16:37**	**150610L04**

Parameter	Result	RL	DF	Qualifiers
Calcium	ND	4.88	0.976	
Magnesium	ND	4.88	0.976	
Potassium	ND	24.4	0.976	
Sodium	ND	24.4	0.976	
Strontium	ND	1.46	0.976	
Silicon	ND	4.88	0.976	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS310	**15-06-0463-1-AA**	**06/04/15 11:22**	**Solid**	**ICP/MS 04**	**06/08/15**	**06/12/15 00:51**	**150608L01**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	2.48	1.00	
Arsenic	ND	1.24	1.00	
Barium	16.0	1.24	1.00	
Beryllium	ND	1.24	1.00	
Cadmium	ND	1.24	1.00	
Chromium	3.38	2.48	1.00	
Copper	3.65	1.24	1.00	
Lead	5.53	1.24	1.00	
Nickel	14.5	1.24	1.00	
Selenium	ND	1.24	1.00	
Silver	ND	1.24	1.00	
Thallium	ND	1.24	1.00	
Zinc	24.6	6.20	1.00	
Aluminum	1390	31.0	1.00	
Iron	1710	31.0	1.00	
Manganese	31.6	3.10	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS320	**15-06-0463-2-AA**	**06/04/15 11:43**	**Solid**	**ICP/MS 04**	**06/08/15**	**06/12/15 00:55**	**150608L01**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	2.82	1.00	
Arsenic	ND	1.41	1.00	
Barium	23.5	1.41	1.00	
Beryllium	ND	1.41	1.00	
Cadmium	ND	1.41	1.00	
Chromium	6.41	2.82	1.00	
Copper	3.55	1.41	1.00	
Lead	6.33	1.41	1.00	
Nickel	19.1	1.41	1.00	
Selenium	ND	1.41	1.00	
Silver	ND	1.41	1.00	
Thallium	ND	1.41	1.00	
Zinc	13.1	7.05	1.00	
Aluminum	1580	35.3	1.00	
Iron	2620	35.3	1.00	
Manganese	47.8	3.53	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS330	**15-06-0463-3-AA**	**06/04/15 12:20**	**Solid**	**ICP/MS 04**	**06/08/15**	**06/12/15 01:11**	**150608L01**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	2.88	1.00	
Arsenic	4.92	1.44	1.00	
Barium	61.0	1.44	1.00	
Beryllium	ND	1.44	1.00	
Cadmium	ND	1.44	1.00	
Chromium	15.3	2.88	1.00	
Copper	9.74	1.44	1.00	
Lead	10.7	1.44	1.00	
Nickel	20.5	1.44	1.00	
Selenium	ND	1.44	1.00	
Silver	ND	1.44	1.00	
Thallium	ND	1.44	1.00	
Zinc	28.2	7.20	1.00	
Aluminum	10300	36.0	1.00	
Iron	10300	36.0	1.00	
Manganese	195	3.60	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS340	**15-06-0463-4-AA**	**06/04/15 13:57**	**Solid**	**ICP/MS 04**	**06/08/15**	**06/12/15 01:15**	**150608L01**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	4.51	1.00	
Arsenic	3.14	2.26	1.00	
Barium	67.9	2.26	1.00	
Beryllium	ND	2.26	1.00	
Cadmium	ND	2.26	1.00	
Chromium	11.7	4.51	1.00	
Copper	12.9	2.26	1.00	
Lead	13.5	2.26	1.00	
Nickel	21.1	2.26	1.00	
Selenium	ND	2.26	1.00	
Silver	ND	2.26	1.00	
Thallium	ND	2.26	1.00	
Zinc	85.1	11.3	1.00	
Aluminum	4880	56.4	1.00	
Iron	9730	56.4	1.00	
Manganese	108	5.64	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS360	**15-06-0463-5-AA**	**06/04/15 14:24**	**Solid**	**ICP/MS 04**	**06/08/15**	**06/12/15 01:19**	**150608L01**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	4.09	1.00	
Arsenic	3.83	2.04	1.00	
Barium	68.9	2.04	1.00	
Beryllium	ND	2.04	1.00	
Cadmium	ND	2.04	1.00	
Chromium	16.1	4.09	1.00	
Copper	14.3	2.04	1.00	
Lead	23.9	2.04	1.00	
Nickel	17.0	2.04	1.00	
Selenium	ND	2.04	1.00	
Silver	ND	2.04	1.00	
Thallium	ND	2.04	1.00	
Zinc	142	10.2	1.00	
Aluminum	10800	51.1	1.00	
Iron	9750	51.1	1.00	
Manganese	216	5.11	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS360	**15-06-0463-6-AA**	**06/04/15 14:24**	**Solid**	**ICP/MS 04**	**06/08/15**	**06/12/15 01:23**	**150608L01**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	4.10	1.00	
Arsenic	4.15	2.05	1.00	
Barium	72.9	2.05	1.00	
Beryllium	ND	2.05	1.00	
Cadmium	ND	2.05	1.00	
Chromium	18.0	4.10	1.00	
Copper	16.0	2.05	1.00	
Lead	26.2	2.05	1.00	
Nickel	18.4	2.05	1.00	
Selenium	ND	2.05	1.00	
Silver	ND	2.05	1.00	
Thallium	ND	2.05	1.00	
Zinc	160	10.2	1.00	
Aluminum	11900	51.2	1.00	
Iron	10700	51.2	1.00	
Manganese	227	5.12	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-953**	**N/A**	**Solid**	**ICP/MS 04**	**06/08/15**	**06/09/15 13:26**	**150608L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	2.00	1.00	
Arsenic	ND	1.00	1.00	
Barium	ND	1.00	1.00	
Beryllium	ND	1.00	1.00	
Cadmium	ND	1.00	1.00	
Chromium	ND	2.00	1.00	
Copper	ND	1.00	1.00	
Lead	ND	1.00	1.00	
Nickel	ND	1.00	1.00	
Selenium	ND	1.00	1.00	
Silver	ND	1.00	1.00	
Thallium	ND	1.00	1.00	
Zinc	ND	5.00	1.00	
Aluminum	ND	25.0	1.00	
Iron	ND	25.0	1.00	
Manganese	ND	2.50	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS310	**15-06-0463-1-AA**	**06/04/15 11:22**	**Solid**	**Mercury 05**	**06/16/15**	**06/16/15 14:39**	**150616L01**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.103	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS320	**15-06-0463-2-AA**	**06/04/15 11:43**	**Solid**	**Mercury 05**	**06/16/15**	**06/16/15 14:41**	**150616L01**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.114	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS330	**15-06-0463-3-AA**	**06/04/15 12:20**	**Solid**	**Mercury 05**	**06/16/15**	**06/16/15 14:43**	**150616L01**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.114	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS340	**15-06-0463-4-AA**	**06/04/15 13:57**	**Solid**	**Mercury 05**	**06/16/15**	**06/16/15 14:45**	**150616L01**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.182	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS360	**15-06-0463-5-AA**	**06/04/15 14:24**	**Solid**	**Mercury 05**	**06/16/15**	**06/16/15 14:47**	**150616L01**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.173	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS360	**15-06-0463-6-AA**	**06/04/15 14:24**	**Solid**	**Mercury 05**	**06/16/15**	**06/16/15 14:32**	**150616L01**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.171	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-1352**	**N/A**	**Solid**	**Mercury 05**	**06/16/15**	**06/16/15 14:27**	**150616L01**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS310	**15-06-0463-1-B**	**06/04/15 11:22**	**Solid**	**GC 44**	**06/13/15**	**06/16/15 18:22**	**150613L05**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	6.3	1.00	
Alpha-BHC	ND	13	1.00	
Beta-BHC	ND	6.3	1.00	
Chlordane	ND	63	1.00	
4,4'-DDD	ND	6.3	1.00	
4,4'-DDE	ND	6.3	1.00	
4,4'-DDT	ND	6.3	1.00	
Delta-BHC	ND	13	1.00	
Dieldrin	ND	6.3	1.00	
Endosulfan I	ND	6.3	1.00	
Endosulfan II	ND	6.3	1.00	
Endosulfan Sulfate	ND	6.3	1.00	
Endrin	ND	6.3	1.00	
Endrin Aldehyde	ND	6.3	1.00	
Endrin Ketone	ND	6.3	1.00	
Gamma-BHC	ND	6.3	1.00	
Heptachlor	ND	6.3	1.00	
Heptachlor Epoxide	ND	13	1.00	
Methoxychlor	ND	6.3	1.00	
Toxaphene	ND	130	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	125	24-168	
2,4,5,6-Tetrachloro-m-Xylene	128	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS320	**15-06-0463-2-B**	**06/04/15 11:43**	**Solid**	**GC 44**	**06/13/15**	**06/16/15 18:37**	**150613L05**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	7.1	1.00	
Alpha-BHC	ND	14	1.00	
Beta-BHC	ND	7.1	1.00	
Chlordane	ND	71	1.00	
4,4'-DDD	ND	7.1	1.00	
4,4'-DDE	ND	7.1	1.00	
4,4'-DDT	ND	7.1	1.00	
Delta-BHC	ND	14	1.00	
Dieldrin	ND	7.1	1.00	
Endosulfan I	ND	7.1	1.00	
Endosulfan II	ND	7.1	1.00	
Endosulfan Sulfate	ND	7.1	1.00	
Endrin	ND	7.1	1.00	
Endrin Aldehyde	ND	7.1	1.00	
Endrin Ketone	ND	7.1	1.00	
Gamma-BHC	ND	7.1	1.00	
Heptachlor	ND	7.1	1.00	
Heptachlor Epoxide	ND	14	1.00	
Methoxychlor	ND	7.1	1.00	
Toxaphene	ND	140	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	118	24-168	
2,4,5,6-Tetrachloro-m-Xylene	122	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS330	**15-06-0463-3-B**	**06/04/15 12:20**	**Solid**	**GC 44**	**06/13/15**	**06/16/15 18:51**	**150613L05**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	7.2	1.00	
Alpha-BHC	ND	14	1.00	
Beta-BHC	ND	7.2	1.00	
Chlordane	ND	72	1.00	
4,4'-DDD	ND	7.2	1.00	
4,4'-DDE	ND	7.2	1.00	
4,4'-DDT	ND	7.2	1.00	
Delta-BHC	ND	14	1.00	
Dieldrin	ND	7.2	1.00	
Endosulfan I	ND	7.2	1.00	
Endosulfan II	ND	7.2	1.00	
Endosulfan Sulfate	ND	7.2	1.00	
Endrin	ND	7.2	1.00	
Endrin Aldehyde	ND	7.2	1.00	
Endrin Ketone	ND	7.2	1.00	
Gamma-BHC	ND	7.2	1.00	
Heptachlor	ND	7.2	1.00	
Heptachlor Epoxide	ND	14	1.00	
Methoxychlor	ND	7.2	1.00	
Toxaphene	ND	140	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	127	24-168	
2,4,5,6-Tetrachloro-m-Xylene	131	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS340	**15-06-0463-4-B**	**06/04/15 13:57**	**Solid**	**GC 44**	**06/13/15**	**06/16/15 19:05**	**150613L05**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	11	1.00	
Alpha-BHC	ND	22	1.00	
Beta-BHC	ND	11	1.00	
Chlordane	ND	110	1.00	
4,4'-DDD	ND	11	1.00	
4,4'-DDE	ND	11	1.00	
4,4'-DDT	ND	11	1.00	
Delta-BHC	ND	22	1.00	
Dieldrin	ND	11	1.00	
Endosulfan I	ND	11	1.00	
Endosulfan II	ND	11	1.00	
Endosulfan Sulfate	ND	11	1.00	
Endrin	ND	11	1.00	
Endrin Aldehyde	ND	11	1.00	
Endrin Ketone	ND	11	1.00	
Gamma-BHC	ND	11	1.00	
Heptachlor	ND	11	1.00	
Heptachlor Epoxide	ND	22	1.00	
Methoxychlor	ND	11	1.00	
Toxaphene	ND	220	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	117	24-168	
2,4,5,6-Tetrachloro-m-Xylene	121	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS360	**15-06-0463-5-B**	**06/04/15 14:24**	**Solid**	**GC 44**	**06/13/15**	**06/16/15 19:20**	**150613L05**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	10	1.00	
Alpha-BHC	ND	21	1.00	
Beta-BHC	ND	10	1.00	
Chlordane	ND	100	1.00	
4,4'-DDD	ND	10	1.00	
4,4'-DDE	ND	10	1.00	
4,4'-DDT	ND	10	1.00	
Delta-BHC	ND	21	1.00	
Dieldrin	ND	10	1.00	
Endosulfan I	ND	10	1.00	
Endosulfan II	ND	10	1.00	
Endosulfan Sulfate	ND	10	1.00	
Endrin	ND	10	1.00	
Endrin Aldehyde	ND	10	1.00	
Endrin Ketone	ND	10	1.00	
Gamma-BHC	ND	10	1.00	
Heptachlor	ND	10	1.00	
Heptachlor Epoxide	ND	21	1.00	
Methoxychlor	ND	10	1.00	
Toxaphene	ND	210	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	112	24-168	
2,4,5,6-Tetrachloro-m-Xylene	125	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS360	**15-06-0463-6-B**	**06/04/15 14:24**	**Solid**	**GC 44**	**06/13/15**	**06/16/15 19:34**	**150613L05**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	10	1.00	
Alpha-BHC	ND	20	1.00	
Beta-BHC	ND	10	1.00	
Chlordane	ND	100	1.00	
4,4'-DDD	ND	10	1.00	
4,4'-DDE	ND	10	1.00	
4,4'-DDT	ND	10	1.00	
Delta-BHC	ND	20	1.00	
Dieldrin	ND	10	1.00	
Endosulfan I	ND	10	1.00	
Endosulfan II	ND	10	1.00	
Endosulfan Sulfate	ND	10	1.00	
Endrin	ND	10	1.00	
Endrin Aldehyde	ND	10	1.00	
Endrin Ketone	ND	10	1.00	
Gamma-BHC	ND	10	1.00	
Heptachlor	ND	10	1.00	
Heptachlor Epoxide	ND	20	1.00	
Methoxychlor	ND	10	1.00	
Toxaphene	ND	200	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	24-168	
2,4,5,6-Tetrachloro-m-Xylene	105	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-2140**	**N/A**	**Solid**	**GC 44**	**06/13/15**	**06/16/15 17:39**	**150613L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	24-168	
2,4,5,6-Tetrachloro-m-Xylene	101	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS310	**15-06-0463-1-B**	**06/04/15 11:22**	**Solid**	**GC 31**	**06/13/15**	**06/16/15 14:32**	**150613L06**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	63	1.00	
Aroclor-1221	ND	63	1.00	
Aroclor-1232	ND	63	1.00	
Aroclor-1242	ND	63	1.00	
Aroclor-1248	ND	63	1.00	
Aroclor-1254	ND	63	1.00	
Aroclor-1260	ND	63	1.00	
Aroclor-1262	ND	63	1.00	
Aroclor-1268	ND	63	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	108	24-168	
2,4,5,6-Tetrachloro-m-Xylene	113	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS320	**15-06-0463-2-B**	**06/04/15 11:43**	**Solid**	**GC 31**	**06/13/15**	**06/16/15 14:51**	**150613L06**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	71	1.00	
Aroclor-1221	ND	71	1.00	
Aroclor-1232	ND	71	1.00	
Aroclor-1242	ND	71	1.00	
Aroclor-1248	ND	71	1.00	
Aroclor-1254	ND	71	1.00	
Aroclor-1260	ND	71	1.00	
Aroclor-1262	ND	71	1.00	
Aroclor-1268	ND	71	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	103	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS330	**15-06-0463-3-B**	**06/04/15 12:20**	**Solid**	**GC 31**	**06/13/15**	**06/16/15 15:10**	**150613L06**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	72	1.00	
Aroclor-1221	ND	72	1.00	
Aroclor-1232	ND	72	1.00	
Aroclor-1242	ND	72	1.00	
Aroclor-1248	ND	72	1.00	
Aroclor-1254	ND	72	1.00	
Aroclor-1260	ND	72	1.00	
Aroclor-1262	ND	72	1.00	
Aroclor-1268	ND	72	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	24-168	
2,4,5,6-Tetrachloro-m-Xylene	89	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS340	**15-06-0463-4-B**	**06/04/15 13:57**	**Solid**	**GC 31**	**06/13/15**	**06/16/15 15:29**	**150613L06**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	110	1.00	
Aroclor-1221	ND	110	1.00	
Aroclor-1232	ND	110	1.00	
Aroclor-1242	ND	110	1.00	
Aroclor-1248	ND	110	1.00	
Aroclor-1254	ND	110	1.00	
Aroclor-1260	ND	110	1.00	
Aroclor-1262	ND	110	1.00	
Aroclor-1268	ND	110	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	24-168	
2,4,5,6-Tetrachloro-m-Xylene	96	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS360	**15-06-0463-5-B**	**06/04/15 14:24**	**Solid**	**GC 31**	**06/13/15**	**06/16/15 15:48**	**150613L06**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	100	1.00	
Aroclor-1221	ND	100	1.00	
Aroclor-1232	ND	100	1.00	
Aroclor-1242	ND	100	1.00	
Aroclor-1248	ND	100	1.00	
Aroclor-1254	ND	100	1.00	
Aroclor-1260	ND	100	1.00	
Aroclor-1262	ND	100	1.00	
Aroclor-1268	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	24-168	
2,4,5,6-Tetrachloro-m-Xylene	93	25-145	

FDHCS360	15-06-0463-6-B	06/04/15 14:24	Solid	GC 31	06/13/15	06/16/15 16:07	150613L06

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	100	1.00	
Aroclor-1221	ND	100	1.00	
Aroclor-1232	ND	100	1.00	
Aroclor-1242	ND	100	1.00	
Aroclor-1248	ND	100	1.00	
Aroclor-1254	ND	100	1.00	
Aroclor-1260	ND	100	1.00	
Aroclor-1262	ND	100	1.00	
Aroclor-1268	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	24-168	
2,4,5,6-Tetrachloro-m-Xylene	94	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-535-3269**	**N/A**	**Solid**	**GC 31**	**06/13/15**	**06/16/15 11:21**	**150613L06**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	106	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS310	**15-06-0463-1-B**	**06/04/15 11:22**	**Solid**	**GC 26**	**06/08/15**	**06/16/15 11:59**	**150608L12**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	0.62	1.00	
Azinphos Methyl	ND	0.62	1.00	
Bolstar	ND	0.62	1.00	
Chlorpyrifos	ND	0.62	1.00	
Coumaphos	ND	0.62	1.00	
Diazinon	ND	0.62	1.00	
Dichlorvos	ND	0.62	1.00	
Disulfoton	ND	0.62	1.00	
Ethoprop	ND	0.62	1.00	
Fensulfothion	ND	0.62	1.00	
Fenthion	ND	0.62	1.00	
Merphos	ND	0.62	1.00	
Methyl Parathion	ND	0.62	1.00	
Mevinphos	ND	0.62	1.00	
Naled	ND	5.0	1.00	
Phorate	ND	0.62	1.00	
Ronnel	ND	0.62	1.00	
Stirophos	ND	2.5	1.00	
Tokuthion	ND	0.62	1.00	
Trichloronate	ND	0.62	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	94	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS320	**15-06-0463-2-B**	**06/04/15 11:43**	**Solid**	**GC 26**	**06/08/15**	**06/16/15 14:17**	**150608L12**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	0.70	1.00	
Azinphos Methyl	ND	0.70	1.00	
Bolstar	ND	0.70	1.00	
Chlorpyrifos	ND	0.70	1.00	
Coumaphos	ND	0.70	1.00	
Diazinon	ND	0.70	1.00	
Dichlorvos	ND	0.70	1.00	
Disulfoton	ND	0.70	1.00	
Ethoprop	ND	0.70	1.00	
Fensulfothion	ND	0.70	1.00	
Fenthion	ND	0.70	1.00	
Merphos	ND	0.70	1.00	
Methyl Parathion	ND	0.70	1.00	
Mevinphos	ND	0.70	1.00	
Naled	ND	5.6	1.00	
Phorate	ND	0.70	1.00	
Ronnel	ND	0.70	1.00	
Stirophos	ND	2.8	1.00	
Tokuthion	ND	0.70	1.00	
Trichloronate	ND	0.70	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	98	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS330	**15-06-0463-3-B**	**06/04/15 12:20**	**Solid**	**GC 26**	**06/08/15**	**06/16/15 15:02**	**150608L12**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	0.72	1.00	
Azinphos Methyl	ND	0.72	1.00	
Bolstar	ND	0.72	1.00	
Chlorpyrifos	ND	0.72	1.00	
Coumaphos	ND	0.72	1.00	
Diazinon	ND	0.72	1.00	
Dichlorvos	ND	0.72	1.00	
Disulfoton	ND	0.72	1.00	
Ethoprop	ND	0.72	1.00	
Fensulfothion	ND	0.72	1.00	
Fenthion	ND	0.72	1.00	
Merphos	ND	0.72	1.00	
Methyl Parathion	ND	0.72	1.00	
Mevinphos	ND	0.72	1.00	
Naled	ND	5.8	1.00	
Phorate	ND	0.72	1.00	
Ronnel	ND	0.72	1.00	
Stirophos	ND	2.9	1.00	
Tokuthion	ND	0.72	1.00	
Trichloronate	ND	0.72	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	103	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS340	**15-06-0463-4-B**	**06/04/15 13:57**	**Solid**	**GC 26**	**06/08/15**	**06/16/15 15:46**	**150608L12**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	1.1	1.00	
Azinphos Methyl	ND	1.1	1.00	
Bolstar	ND	1.1	1.00	
Chlorpyrifos	ND	1.1	1.00	
Coumaphos	ND	1.1	1.00	
Diazinon	ND	1.1	1.00	
Dichlorvos	ND	1.1	1.00	
Disulfoton	ND	1.1	1.00	
Ethoprop	ND	1.1	1.00	
Fensulfothion	ND	1.1	1.00	
Fenthion	ND	1.1	1.00	
Merphos	ND	1.1	1.00	
Methyl Parathion	ND	1.1	1.00	
Mevinphos	ND	1.1	1.00	
Naled	ND	8.9	1.00	
Phorate	ND	1.1	1.00	
Ronnel	ND	1.1	1.00	
Stirophos	ND	4.5	1.00	
Tokuthion	ND	1.1	1.00	
Trichloronate	ND	1.1	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	94	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS360	**15-06-0463-5-B**	**06/04/15 14:24**	**Solid**	**GC 26**	**06/08/15**	**06/16/15 17:14**	**150608L12**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	1.0	1.00	
Azinphos Methyl	ND	1.0	1.00	
Bolstar	ND	1.0	1.00	
Chlorpyrifos	ND	1.0	1.00	
Coumaphos	ND	1.0	1.00	
Diazinon	ND	1.0	1.00	
Dichlorvos	ND	1.0	1.00	
Disulfoton	ND	1.0	1.00	
Ethoprop	ND	1.0	1.00	
Fensulfothion	ND	1.0	1.00	
Fenthion	ND	1.0	1.00	
Merphos	ND	1.0	1.00	
Methyl Parathion	ND	1.0	1.00	
Mevinphos	ND	1.0	1.00	
Naled	ND	8.2	1.00	
Phorate	ND	1.0	1.00	
Ronnel	ND	1.0	1.00	
Stirophos	ND	4.1	1.00	
Tokuthion	ND	1.0	1.00	
Trichloronate	ND	1.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	97	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS360	**15-06-0463-6-B**	**06/04/15 14:24**	**Solid**	**GC 26**	**06/08/15**	**06/16/15 19:02**	**150608L12**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	1.0	1.00	
Azinphos Methyl	ND	1.0	1.00	
Bolstar	ND	1.0	1.00	
Chlorpyrifos	ND	1.0	1.00	
Coumaphos	ND	1.0	1.00	
Diazinon	ND	1.0	1.00	
Dichlorvos	ND	1.0	1.00	
Disulfoton	ND	1.0	1.00	
Ethoprop	ND	1.0	1.00	
Fensulfothion	ND	1.0	1.00	
Fenthion	ND	1.0	1.00	
Merphos	ND	1.0	1.00	
Methyl Parathion	ND	1.0	1.00	
Mevinphos	ND	1.0	1.00	
Naled	ND	8.2	1.00	
Phorate	ND	1.0	1.00	
Ronnel	ND	1.0	1.00	
Stirophos	ND	4.1	1.00	
Tokuthion	ND	1.0	1.00	
Trichloronate	ND	1.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	119	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-973-187**	**N/A**	**Solid**	**GC 26**	**06/08/15**	**06/09/15 11:41**	**150608L12**

Parameter	Result	RL	DF	Qualifiers
Demeton-o/s	ND	0.50	1.00	
Azinphos Methyl	ND	0.50	1.00	
Bolstar	ND	0.50	1.00	
Chlorpyrifos	ND	0.50	1.00	
Coumaphos	ND	0.50	1.00	
Diazinon	ND	0.50	1.00	
Dichlorvos	ND	0.50	1.00	
Disulfoton	ND	0.50	1.00	
Ethoprop	ND	0.50	1.00	
Fensulfothion	ND	0.50	1.00	
Fenthion	ND	0.50	1.00	
Merphos	ND	0.50	1.00	
Methyl Parathion	ND	0.50	1.00	
Mevinphos	ND	0.50	1.00	
Naled	ND	4.0	1.00	
Phorate	ND	0.50	1.00	
Ronnel	ND	0.50	1.00	
Stirophos	ND	2.0	1.00	
Tokuthion	ND	0.50	1.00	
Trichloronate	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	99	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS310	**15-06-0463-1-B**	**06/04/15 11:22**	**Solid**	**GC 40**	**06/10/15**	**06/16/15 15:14**	**150610L09**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	310	1.00	
Dicamba	ND	12	1.00	
MCPP	ND	12000	1.00	
MCPA	ND	12000	1.00	
Dichlorprop	ND	120	1.00	
2,4-D	ND	120	1.00	
2,4,5-TP (Silvex)	ND	12	1.00	
2,4,5-T	ND	12	1.00	
2,4-DB	ND	120	1.00	
Dinoseb	ND	62	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	51	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS320	**15-06-0463-2-B**	**06/04/15 11:43**	**Solid**	**GC 40**	**06/10/15**	**06/16/15 15:41**	**150610L09**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	350	1.00	
Dicamba	ND	14	1.00	
MCPP	ND	14000	1.00	
MCPA	ND	14000	1.00	
Dichlorprop	ND	140	1.00	
2,4-D	ND	140	1.00	
2,4,5-TP (Silvex)	ND	14	1.00	
2,4,5-T	ND	14	1.00	
2,4-DB	ND	140	1.00	
Dinoseb	ND	71	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	58	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS330	**15-06-0463-3-B**	**06/04/15 12:20**	**Solid**	**GC 40**	**06/10/15**	**06/16/15 16:04**	**150610L09**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	360	1.00	
Dicamba	ND	14	1.00	
MCPP	ND	14000	1.00	
MCPA	ND	14000	1.00	
Dichlorprop	ND	140	1.00	
2,4-D	ND	140	1.00	
2,4,5-TP (Silvex)	ND	14	1.00	
2,4,5-T	ND	14	1.00	
2,4-DB	ND	140	1.00	
Dinoseb	ND	72	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	64	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS340	**15-06-0463-4-B**	**06/04/15 13:57**	**Solid**	**GC 40**	**06/10/15**	**06/16/15 16:27**	**150610L09**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	570	1.00	
Dicamba	ND	23	1.00	
MCPP	ND	23000	1.00	
MCPA	ND	23000	1.00	
Dichlorprop	ND	230	1.00	
2,4-D	ND	230	1.00	
2,4,5-TP (Silvex)	ND	23	1.00	
2,4,5-T	ND	23	1.00	
2,4-DB	ND	230	1.00	
Dinoseb	ND	110	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	66	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS360	**15-06-0463-5-B**	**06/04/15 14:24**	**Solid**	**GC 40**	**06/10/15**	**06/16/15 16:51**	**150610L09**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	510	1.00	
Dicamba	ND	21	1.00	
MCPP	ND	21000	1.00	
MCPA	ND	21000	1.00	
Dichlorprop	ND	210	1.00	
2,4-D	ND	210	1.00	
2,4,5-TP (Silvex)	ND	21	1.00	
2,4,5-T	ND	21	1.00	
2,4-DB	ND	210	1.00	
Dinoseb	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	71	30-130	

FDHCS360	15-06-0463-6-B	06/04/15 14:24	Solid	GC 40	06/10/15	06/16/15 17:14	150610L09

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	510	1.00	
Dicamba	ND	20	1.00	
MCPP	ND	20000	1.00	
MCPA	ND	20000	1.00	
Dichlorprop	ND	200	1.00	
2,4-D	ND	200	1.00	
2,4,5-TP (Silvex)	ND	20	1.00	
2,4,5-T	ND	20	1.00	
2,4-DB	ND	200	1.00	
Dinoseb	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	67	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-033-1294**	**N/A**	**Solid**	**GC 40**	**06/10/15**	**06/11/15 19:20**	**150610L09**

Parameter	Result	RL	DF	Qualifiers
Dalapon	ND	250	1.00	
Dicamba	ND	10	1.00	
MCPP	ND	10000	1.00	
MCPA	ND	10000	1.00	
Dichlorprop	ND	100	1.00	
2,4-D	ND	100	1.00	
2,4,5-TP (Silvex)	ND	10	1.00	
2,4,5-T	ND	10	1.00	
2,4-DB	ND	100	1.00	
Dinoseb	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	67	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS310	**15-06-0463-1-B**	**06/04/15 11:22**	**Solid**	**GC/MS CCC**	**06/13/15**	**06/17/15 01:07**	**150613L07**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.62	1.00	
Acenaphthylene	ND	0.62	1.00	
Aniline	ND	0.62	1.00	
Anthracene	ND	0.62	1.00	
Azobenzene	ND	0.62	1.00	
Benzidine	ND	12	1.00	
Benzo (a) Anthracene	ND	0.62	1.00	
Benzo (a) Pyrene	ND	0.62	1.00	
Benzo (b) Fluoranthene	ND	0.62	1.00	
Benzo (g,h,i) Perylene	ND	0.62	1.00	
Benzo (k) Fluoranthene	ND	0.62	1.00	
Benzoic Acid	ND	3.1	1.00	
Benzyl Alcohol	ND	0.62	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.62	1.00	
Bis(2-Chloroethyl) Ether	ND	3.1	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.62	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.62	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.62	1.00	
Butyl Benzyl Phthalate	ND	0.62	1.00	
4-Chloro-3-Methylphenol	ND	0.62	1.00	
4-Chloroaniline	ND	0.62	1.00	
2-Chloronaphthalene	ND	0.62	1.00	
2-Chlorophenol	ND	0.62	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.62	1.00	
Chrysene	ND	0.62	1.00	
Di-n-Butyl Phthalate	ND	0.62	1.00	
Di-n-Octyl Phthalate	ND	0.62	1.00	
Dibenz (a,h) Anthracene	ND	0.62	1.00	
Dibenzofuran	ND	0.62	1.00	
1,2-Dichlorobenzene	ND	0.62	1.00	
1,3-Dichlorobenzene	ND	0.62	1.00	
1,4-Dichlorobenzene	ND	0.62	1.00	
3,3'-Dichlorobenzidine	ND	12	1.00	
2,4-Dichlorophenol	ND	0.62	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Parameter	Result	RL	DF	Qualifiers
Diethyl Phthalate	ND	0.62	1.00	
Dimethyl Phthalate	ND	0.62	1.00	
2,4-Dimethylphenol	ND	0.62	1.00	
4,6-Dinitro-2-Methylphenol	ND	3.1	1.00	
2,4-Dinitrophenol	ND	3.1	1.00	
2,4-Dinitrotoluene	ND	0.62	1.00	
2,6-Dinitrotoluene	ND	0.62	1.00	
Fluoranthene	ND	0.62	1.00	
Fluorene	ND	0.62	1.00	
Hexachloro-1,3-Butadiene	ND	0.62	1.00	
Hexachlorobenzene	ND	0.62	1.00	
Hexachlorocyclopentadiene	ND	3.1	1.00	
Hexachloroethane	ND	0.62	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.62	1.00	
Isophorone	ND	0.62	1.00	
2-Methylnaphthalene	ND	0.62	1.00	
1-Methylnaphthalene	ND	0.62	1.00	
2-Methylphenol	ND	0.62	1.00	
3/4-Methylphenol	ND	0.62	1.00	
N-Nitroso-di-n-propylamine	ND	0.62	1.00	
N-Nitrosodimethylamine	ND	0.62	1.00	
N-Nitrosodiphenylamine	ND	0.62	1.00	
Naphthalene	ND	0.62	1.00	
4-Nitroaniline	ND	0.62	1.00	
3-Nitroaniline	ND	0.62	1.00	
2-Nitroaniline	ND	0.62	1.00	
Nitrobenzene	ND	3.1	1.00	
4-Nitrophenol	ND	0.62	1.00	
2-Nitrophenol	ND	0.62	1.00	
Pentachlorophenol	ND	3.1	1.00	
Phenanthrene	ND	0.62	1.00	
Phenol	ND	0.62	1.00	
Pyrene	ND	0.62	1.00	
Pyridine	ND	0.62	1.00	
1,2,4-Trichlorobenzene	ND	0.62	1.00	
2,4,6-Trichlorophenol	ND	0.62	1.00	
2,4,5-Trichlorophenol	ND	0.62	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	06/05/15
6200 UTSA Blvd., Suite 102	Work Order:	15-06-0463
San Antonio, TX 78249-1618	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: EAA 27122		Page 3 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	52	27-120	
2-Fluorophenol	53	25-120	
Nitrobenzene-d5	43	33-123	
p-Terphenyl-d14	59	27-159	
Phenol-d6	56	26-122	
2,4,6-Tribromophenol	62	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS320	**15-06-0463-2-B**	**06/04/15 11:43**	**Solid**	**GC/MS CCC**	**06/13/15**	**06/17/15 01:25**	**150613L07**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.72	1.00	
Acenaphthylene	ND	0.72	1.00	
Aniline	ND	0.72	1.00	
Anthracene	ND	0.72	1.00	
Azobenzene	ND	0.72	1.00	
Benzidine	ND	14	1.00	
Benzo (a) Anthracene	ND	0.72	1.00	
Benzo (a) Pyrene	ND	0.72	1.00	
Benzo (b) Fluoranthene	ND	0.72	1.00	
Benzo (g,h,i) Perylene	ND	0.72	1.00	
Benzo (k) Fluoranthene	ND	0.72	1.00	
Benzoic Acid	ND	3.6	1.00	
Benzyl Alcohol	ND	0.72	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.72	1.00	
Bis(2-Chloroethyl) Ether	ND	3.6	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.72	1.00	
Bis(2-Ethylhexyl) Phthalate	0.94	0.72	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.72	1.00	
Butyl Benzyl Phthalate	ND	0.72	1.00	
4-Chloro-3-Methylphenol	ND	0.72	1.00	
4-Chloroaniline	ND	0.72	1.00	
2-Chloronaphthalene	ND	0.72	1.00	
2-Chlorophenol	ND	0.72	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.72	1.00	
Chrysene	ND	0.72	1.00	
Di-n-Butyl Phthalate	ND	0.72	1.00	
Di-n-Octyl Phthalate	ND	0.72	1.00	
Dibenz (a,h) Anthracene	ND	0.72	1.00	
Dibenzofuran	ND	0.72	1.00	
1,2-Dichlorobenzene	ND	0.72	1.00	
1,3-Dichlorobenzene	ND	0.72	1.00	
1,4-Dichlorobenzene	ND	0.72	1.00	
3,3'-Dichlorobenzidine	ND	14	1.00	
2,4-Dichlorophenol	ND	0.72	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Parameter	Result	RL	DF	Qualifiers
Diethyl Phthalate	ND	0.72	1.00	
Dimethyl Phthalate	ND	0.72	1.00	
2,4-Dimethylphenol	ND	0.72	1.00	
4,6-Dinitro-2-Methylphenol	ND	3.6	1.00	
2,4-Dinitrophenol	ND	3.6	1.00	
2,4-Dinitrotoluene	ND	0.72	1.00	
2,6-Dinitrotoluene	ND	0.72	1.00	
Fluoranthene	ND	0.72	1.00	
Fluorene	ND	0.72	1.00	
Hexachloro-1,3-Butadiene	ND	0.72	1.00	
Hexachlorobenzene	ND	0.72	1.00	
Hexachlorocyclopentadiene	ND	3.6	1.00	
Hexachloroethane	ND	0.72	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.72	1.00	
Isophorone	ND	0.72	1.00	
2-Methylnaphthalene	ND	0.72	1.00	
1-Methylnaphthalene	ND	0.72	1.00	
2-Methylphenol	ND	0.72	1.00	
3/4-Methylphenol	ND	0.72	1.00	
N-Nitroso-di-n-propylamine	ND	0.72	1.00	
N-Nitrosodimethylamine	ND	0.72	1.00	
N-Nitrosodiphenylamine	ND	0.72	1.00	
Naphthalene	ND	0.72	1.00	
4-Nitroaniline	ND	0.72	1.00	
3-Nitroaniline	ND	0.72	1.00	
2-Nitroaniline	ND	0.72	1.00	
Nitrobenzene	ND	3.6	1.00	
4-Nitrophenol	ND	0.72	1.00	
2-Nitrophenol	ND	0.72	1.00	
Pentachlorophenol	ND	3.6	1.00	
Phenanthrene	ND	0.72	1.00	
Phenol	ND	0.72	1.00	
Pyrene	ND	0.72	1.00	
Pyridine	ND	0.72	1.00	
1,2,4-Trichlorobenzene	ND	0.72	1.00	
2,4,6-Trichlorophenol	ND	0.72	1.00	
2,4,5-Trichlorophenol	ND	0.72	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	06/05/15
6200 UTSA Blvd., Suite 102	Work Order:	15-06-0463
San Antonio, TX 78249-1618	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: EAA 27122		Page 6 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	53	27-120	
2-Fluorophenol	51	25-120	
Nitrobenzene-d5	43	33-123	
p-Terphenyl-d14	67	27-159	
Phenol-d6	55	26-122	
2,4,6-Tribromophenol	70	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS330	**15-06-0463-3-B**	**06/04/15 12:20**	**Solid**	**GC/MS CCC**	**06/13/15**	**06/17/15 01:43**	**150613L07**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.73	1.00	
Acenaphthylene	ND	0.73	1.00	
Aniline	ND	0.73	1.00	
Anthracene	ND	0.73	1.00	
Azobenzene	ND	0.73	1.00	
Benzidine	ND	15	1.00	
Benzo (a) Anthracene	ND	0.73	1.00	
Benzo (a) Pyrene	ND	0.73	1.00	
Benzo (b) Fluoranthene	ND	0.73	1.00	
Benzo (g,h,i) Perylene	ND	0.73	1.00	
Benzo (k) Fluoranthene	ND	0.73	1.00	
Benzoic Acid	ND	3.7	1.00	
Benzyl Alcohol	ND	0.73	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.73	1.00	
Bis(2-Chloroethyl) Ether	ND	3.7	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.73	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.73	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.73	1.00	
Butyl Benzyl Phthalate	ND	0.73	1.00	
4-Chloro-3-Methylphenol	ND	0.73	1.00	
4-Chloroaniline	ND	0.73	1.00	
2-Chloronaphthalene	ND	0.73	1.00	
2-Chlorophenol	ND	0.73	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.73	1.00	
Chrysene	ND	0.73	1.00	
Di-n-Butyl Phthalate	ND	0.73	1.00	
Di-n-Octyl Phthalate	ND	0.73	1.00	
Dibenz (a,h) Anthracene	ND	0.73	1.00	
Dibenzofuran	ND	0.73	1.00	
1,2-Dichlorobenzene	ND	0.73	1.00	
1,3-Dichlorobenzene	ND	0.73	1.00	
1,4-Dichlorobenzene	ND	0.73	1.00	
3,3'-Dichlorobenzidine	ND	15	1.00	
2,4-Dichlorophenol	ND	0.73	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Parameter	Result	RL	DF	Qualifiers
Diethyl Phthalate	ND	0.73	1.00	
Dimethyl Phthalate	ND	0.73	1.00	
2,4-Dimethylphenol	ND	0.73	1.00	
4,6-Dinitro-2-Methylphenol	ND	3.7	1.00	
2,4-Dinitrophenol	ND	3.7	1.00	
2,4-Dinitrotoluene	ND	0.73	1.00	
2,6-Dinitrotoluene	ND	0.73	1.00	
Fluoranthene	ND	0.73	1.00	
Fluorene	ND	0.73	1.00	
Hexachloro-1,3-Butadiene	ND	0.73	1.00	
Hexachlorobenzene	ND	0.73	1.00	
Hexachlorocyclopentadiene	ND	3.7	1.00	
Hexachloroethane	ND	0.73	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.73	1.00	
Isophorone	ND	0.73	1.00	
2-Methylnaphthalene	ND	0.73	1.00	
1-Methylnaphthalene	ND	0.73	1.00	
2-Methylphenol	ND	0.73	1.00	
3/4-Methylphenol	ND	0.73	1.00	
N-Nitroso-di-n-propylamine	ND	0.73	1.00	
N-Nitrosodimethylamine	ND	0.73	1.00	
N-Nitrosodiphenylamine	ND	0.73	1.00	
Naphthalene	ND	0.73	1.00	
4-Nitroaniline	ND	0.73	1.00	
3-Nitroaniline	ND	0.73	1.00	
2-Nitroaniline	ND	0.73	1.00	
Nitrobenzene	ND	3.7	1.00	
4-Nitrophenol	ND	0.73	1.00	
2-Nitrophenol	ND	0.73	1.00	
Pentachlorophenol	ND	3.7	1.00	
Phenanthrene	ND	0.73	1.00	
Phenol	ND	0.73	1.00	
Pyrene	ND	0.73	1.00	
Pyridine	ND	0.73	1.00	
1,2,4-Trichlorobenzene	ND	0.73	1.00	
2,4,6-Trichlorophenol	ND	0.73	1.00	
2,4,5-Trichlorophenol	ND	0.73	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	06/05/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0463
San Antonio, TX 78249-1618		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: EAA 27122			Page 9 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	48	27-120	
2-Fluorophenol	45	25-120	
Nitrobenzene-d5	44	33-123	
p-Terphenyl-d14	58	27-159	
Phenol-d6	48	26-122	
2,4,6-Tribromophenol	60	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS340	**15-06-0463-4-B**	**06/04/15 13:57**	**Solid**	**GC/MS CCC**	**06/13/15**	**06/17/15 02:01**	**150613L07**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	1.1	1.00	
Acenaphthylene	ND	1.1	1.00	
Aniline	ND	1.1	1.00	
Anthracene	ND	1.1	1.00	
Azobenzene	ND	1.1	1.00	
Benzidine	ND	23	1.00	
Benzo (a) Anthracene	ND	1.1	1.00	
Benzo (a) Pyrene	ND	1.1	1.00	
Benzo (b) Fluoranthene	ND	1.1	1.00	
Benzo (g,h,i) Perylene	ND	1.1	1.00	
Benzo (k) Fluoranthene	ND	1.1	1.00	
Benzoic Acid	ND	5.6	1.00	
Benzyl Alcohol	ND	1.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	1.1	1.00	
Bis(2-Chloroethyl) Ether	ND	5.6	1.00	
Bis(2-Chloroisopropyl) Ether	ND	1.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	1.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	1.1	1.00	
Butyl Benzyl Phthalate	ND	1.1	1.00	
4-Chloro-3-Methylphenol	ND	1.1	1.00	
4-Chloroaniline	ND	1.1	1.00	
2-Chloronaphthalene	ND	1.1	1.00	
2-Chlorophenol	ND	1.1	1.00	
4-Chlorophenyl-Phenyl Ether	ND	1.1	1.00	
Chrysene	ND	1.1	1.00	
Di-n-Butyl Phthalate	ND	1.1	1.00	
Di-n-Octyl Phthalate	ND	1.1	1.00	
Dibenz (a,h) Anthracene	ND	1.1	1.00	
Dibenzofuran	ND	1.1	1.00	
1,2-Dichlorobenzene	ND	1.1	1.00	
1,3-Dichlorobenzene	ND	1.1	1.00	
1,4-Dichlorobenzene	ND	1.1	1.00	
3,3'-Dichlorobenzidine	ND	23	1.00	
2,4-Dichlorophenol	ND	1.1	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Diethyl Phthalate	ND	1.1	1.00	
Dimethyl Phthalate	ND	1.1	1.00	
2,4-Dimethylphenol	ND	1.1	1.00	
4,6-Dinitro-2-Methylphenol	ND	5.6	1.00	
2,4-Dinitrophenol	ND	5.6	1.00	
2,4-Dinitrotoluene	ND	1.1	1.00	
2,6-Dinitrotoluene	ND	1.1	1.00	
Fluoranthene	ND	1.1	1.00	
Fluorene	ND	1.1	1.00	
Hexachloro-1,3-Butadiene	ND	1.1	1.00	
Hexachlorobenzene	ND	1.1	1.00	
Hexachlorocyclopentadiene	ND	5.6	1.00	
Hexachloroethane	ND	1.1	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	1.1	1.00	
Isophorone	ND	1.1	1.00	
2-Methylnaphthalene	ND	1.1	1.00	
1-Methylnaphthalene	ND	1.1	1.00	
2-Methylphenol	ND	1.1	1.00	
3/4-Methylphenol	ND	1.1	1.00	
N-Nitroso-di-n-propylamine	ND	1.1	1.00	
N-Nitrosodimethylamine	ND	1.1	1.00	
N-Nitrosodiphenylamine	ND	1.1	1.00	
Naphthalene	ND	1.1	1.00	
4-Nitroaniline	ND	1.1	1.00	
3-Nitroaniline	ND	1.1	1.00	
2-Nitroaniline	ND	1.1	1.00	
Nitrobenzene	ND	5.6	1.00	
4-Nitrophenol	ND	1.1	1.00	
2-Nitrophenol	ND	1.1	1.00	
Pentachlorophenol	ND	5.6	1.00	
Phenanthrene	ND	1.1	1.00	
Phenol	ND	1.1	1.00	
Pyrene	ND	1.1	1.00	
Pyridine	ND	1.1	1.00	
1,2,4-Trichlorobenzene	ND	1.1	1.00	
2,4,6-Trichlorophenol	ND	1.1	1.00	
2,4,5-Trichlorophenol	ND	1.1	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	06/05/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0463
San Antonio, TX 78249-1618		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: EAA 27122			Page 12 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	55	27-120	
2-Fluorophenol	55	25-120	
Nitrobenzene-d5	47	33-123	
p-Terphenyl-d14	62	27-159	
Phenol-d6	57	26-122	
2,4,6-Tribromophenol	64	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS360	**15-06-0463-5-B**	**06/04/15 14:24**	**Solid**	**GC/MS CCC**	**06/13/15**	**06/17/15 02:19**	**150613L07**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	1.0	1.00	
Acenaphthylene	ND	1.0	1.00	
Aniline	ND	1.0	1.00	
Anthracene	ND	1.0	1.00	
Azobenzene	ND	1.0	1.00	
Benzidine	ND	20	1.00	
Benzo (a) Anthracene	ND	1.0	1.00	
Benzo (a) Pyrene	ND	1.0	1.00	
Benzo (b) Fluoranthene	ND	1.0	1.00	
Benzo (g,h,i) Perylene	ND	1.0	1.00	
Benzo (k) Fluoranthene	ND	1.0	1.00	
Benzoic Acid	ND	5.1	1.00	
Benzyl Alcohol	ND	1.0	1.00	
Bis(2-Chloroethoxy) Methane	ND	1.0	1.00	
Bis(2-Chloroethyl) Ether	ND	5.1	1.00	
Bis(2-Chloroisopropyl) Ether	ND	1.0	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	1.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	1.0	1.00	
Butyl Benzyl Phthalate	ND	1.0	1.00	
4-Chloro-3-Methylphenol	ND	1.0	1.00	
4-Chloroaniline	ND	1.0	1.00	
2-Chloronaphthalene	ND	1.0	1.00	
2-Chlorophenol	ND	1.0	1.00	
4-Chlorophenyl-Phenyl Ether	ND	1.0	1.00	
Chrysene	ND	1.0	1.00	
Di-n-Butyl Phthalate	ND	1.0	1.00	
Di-n-Octyl Phthalate	ND	1.0	1.00	
Dibenz (a,h) Anthracene	ND	1.0	1.00	
Dibenzofuran	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
3,3'-Dichlorobenzidine	ND	20	1.00	
2,4-Dichlorophenol	ND	1.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	DF	Qualifiers
Diethyl Phthalate	ND	1.0	1.00	
Dimethyl Phthalate	ND	1.0	1.00	
2,4-Dimethylphenol	ND	1.0	1.00	
4,6-Dinitro-2-Methylphenol	ND	5.1	1.00	
2,4-Dinitrophenol	ND	5.1	1.00	
2,4-Dinitrotoluene	ND	1.0	1.00	
2,6-Dinitrotoluene	ND	1.0	1.00	
Fluoranthene	ND	1.0	1.00	
Fluorene	ND	1.0	1.00	
Hexachloro-1,3-Butadiene	ND	1.0	1.00	
Hexachlorobenzene	ND	1.0	1.00	
Hexachlorocyclopentadiene	ND	5.1	1.00	
Hexachloroethane	ND	1.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	1.0	1.00	
Isophorone	ND	1.0	1.00	
2-Methylnaphthalene	ND	1.0	1.00	
1-Methylnaphthalene	ND	1.0	1.00	
2-Methylphenol	ND	1.0	1.00	
3/4-Methylphenol	ND	1.0	1.00	
N-Nitroso-di-n-propylamine	ND	1.0	1.00	
N-Nitrosodimethylamine	ND	1.0	1.00	
N-Nitrosodiphenylamine	ND	1.0	1.00	
Naphthalene	ND	1.0	1.00	
4-Nitroaniline	ND	1.0	1.00	
3-Nitroaniline	ND	1.0	1.00	
2-Nitroaniline	ND	1.0	1.00	
Nitrobenzene	ND	5.1	1.00	
4-Nitrophenol	ND	1.0	1.00	
2-Nitrophenol	ND	1.0	1.00	
Pentachlorophenol	ND	5.1	1.00	
Phenanthrene	ND	1.0	1.00	
Phenol	ND	1.0	1.00	
Pyrene	ND	1.0	1.00	
Pyridine	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
2,4,6-Trichlorophenol	ND	1.0	1.00	
2,4,5-Trichlorophenol	ND	1.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	06/05/15
6200 UTSA Blvd., Suite 102	Work Order:	15-06-0463
San Antonio, TX 78249-1618	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: EAA 27122		Page 15 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	66	27-120	
2-Fluorophenol	62	25-120	
Nitrobenzene-d5	63	33-123	
p-Terphenyl-d14	70	27-159	
Phenol-d6	65	26-122	
2,4,6-Tribromophenol	77	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS360	**15-06-0463-6-B**	**06/04/15 14:24**	**Solid**	**GC/MS CCC**	**06/13/15**	**06/17/15 02:37**	**150613L07**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	1.0	1.00	
Acenaphthylene	ND	1.0	1.00	
Aniline	ND	1.0	1.00	
Anthracene	ND	1.0	1.00	
Azobenzene	ND	1.0	1.00	
Benzidine	ND	20	1.00	
Benzo (a) Anthracene	ND	1.0	1.00	
Benzo (a) Pyrene	ND	1.0	1.00	
Benzo (b) Fluoranthene	ND	1.0	1.00	
Benzo (g,h,i) Perylene	ND	1.0	1.00	
Benzo (k) Fluoranthene	ND	1.0	1.00	
Benzoic Acid	ND	5.1	1.00	
Benzyl Alcohol	ND	1.0	1.00	
Bis(2-Chloroethoxy) Methane	ND	1.0	1.00	
Bis(2-Chloroethyl) Ether	ND	5.1	1.00	
Bis(2-Chloroisopropyl) Ether	ND	1.0	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	1.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	1.0	1.00	
Butyl Benzyl Phthalate	ND	1.0	1.00	
4-Chloro-3-Methylphenol	ND	1.0	1.00	
4-Chloroaniline	ND	1.0	1.00	
2-Chloronaphthalene	ND	1.0	1.00	
2-Chlorophenol	ND	1.0	1.00	
4-Chlorophenyl-Phenyl Ether	ND	1.0	1.00	
Chrysene	ND	1.0	1.00	
Di-n-Butyl Phthalate	ND	1.0	1.00	
Di-n-Octyl Phthalate	ND	1.0	1.00	
Dibenz (a,h) Anthracene	ND	1.0	1.00	
Dibenzofuran	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
3,3'-Dichlorobenzidine	ND	20	1.00	
2,4-Dichlorophenol	ND	1.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Parameter	Result	RL	DF	Qualifiers
Diethyl Phthalate	ND	1.0	1.00	
Dimethyl Phthalate	ND	1.0	1.00	
2,4-Dimethylphenol	ND	1.0	1.00	
4,6-Dinitro-2-Methylphenol	ND	5.1	1.00	
2,4-Dinitrophenol	ND	5.1	1.00	
2,4-Dinitrotoluene	ND	1.0	1.00	
2,6-Dinitrotoluene	ND	1.0	1.00	
Fluoranthene	ND	1.0	1.00	
Fluorene	ND	1.0	1.00	
Hexachloro-1,3-Butadiene	ND	1.0	1.00	
Hexachlorobenzene	ND	1.0	1.00	
Hexachlorocyclopentadiene	ND	5.1	1.00	
Hexachloroethane	ND	1.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	1.0	1.00	
Isophorone	ND	1.0	1.00	
2-Methylnaphthalene	ND	1.0	1.00	
1-Methylnaphthalene	ND	1.0	1.00	
2-Methylphenol	ND	1.0	1.00	
3/4-Methylphenol	ND	1.0	1.00	
N-Nitroso-di-n-propylamine	ND	1.0	1.00	
N-Nitrosodimethylamine	ND	1.0	1.00	
N-Nitrosodiphenylamine	ND	1.0	1.00	
Naphthalene	ND	1.0	1.00	
4-Nitroaniline	ND	1.0	1.00	
3-Nitroaniline	ND	1.0	1.00	
2-Nitroaniline	ND	1.0	1.00	
Nitrobenzene	ND	5.1	1.00	
4-Nitrophenol	ND	1.0	1.00	
2-Nitrophenol	ND	1.0	1.00	
Pentachlorophenol	ND	5.1	1.00	
Phenanthrene	ND	1.0	1.00	
Phenol	ND	1.0	1.00	
Pyrene	ND	1.0	1.00	
Pyridine	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
2,4,6-Trichlorophenol	ND	1.0	1.00	
2,4,5-Trichlorophenol	ND	1.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	06/05/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0463
San Antonio, TX 78249-1618		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: EAA 27122			Page 18 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	64	27-120	
2-Fluorophenol	62	25-120	
Nitrobenzene-d5	60	33-123	
p-Terphenyl-d14	68	27-159	
Phenol-d6	65	26-122	
2,4,6-Tribromophenol	74	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-3310**	**N/A**	**Solid**	**GC/MS SS**	**06/13/15**	**06/15/15 21:16**	**150613L07**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	77	27-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	06/05/15
6200 UTSA Blvd., Suite 102	Work Order:	15-06-0463
San Antonio, TX 78249-1618	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: EAA 27122		Page 21 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	79	25-120	
Nitrobenzene-d5	66	33-123	
p-Terphenyl-d14	76	27-159	
Phenol-d6	79	26-122	
2,4,6-Tribromophenol	90	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB07	**15-06-0463-7-A**	**06/04/15 00:00**	**Aqueous**	**GC/MS V V**	**06/13/15**	**06/13/15 20:26**	**150613L025**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	20	1.00	
Benzene	ND	0.50	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	1.0	1.00	
Bromomethane	ND	10	1.00	
2-Butanone	ND	10	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	1.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.0	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	1.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	80-120	
Dibromofluoromethane	98	78-126	
1,2-Dichloroethane-d4	95	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-17397**	**N/A**	**Aqueous**	**GC/MS V V**	**06/13/15**	**06/13/15 11:37**	**150613L025**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	20	1.00	
Benzene	ND	0.50	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	1.0	1.00	
Bromomethane	ND	10	1.00	
2-Butanone	ND	10	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	1.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.0	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	1.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	95	75-135	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS310	**15-06-0463-1-B**	**06/04/15 11:22**	**Solid**	**GC/MS W**	**06/07/15**	**06/08/15 04:06**	**150607L024**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	160	1.00	
Benzene	ND	6.3	1.00	
Bromobenzene	ND	6.3	1.00	
Bromochloromethane	ND	6.3	1.00	
Bromodichloromethane	ND	6.3	1.00	
Bromoform	ND	6.3	1.00	
Bromomethane	ND	32	1.00	
2-Butanone	ND	63	1.00	
n-Butylbenzene	ND	6.3	1.00	
sec-Butylbenzene	ND	6.3	1.00	
tert-Butylbenzene	ND	6.3	1.00	
Carbon Disulfide	ND	63	1.00	
Carbon Tetrachloride	ND	6.3	1.00	
Chlorobenzene	ND	6.3	1.00	
Chloroethane	ND	6.3	1.00	
Chloroform	ND	6.3	1.00	
Chloromethane	ND	32	1.00	
2-Chlorotoluene	ND	6.3	1.00	
4-Chlorotoluene	ND	6.3	1.00	
Dibromochloromethane	ND	6.3	1.00	
1,2-Dibromo-3-Chloropropane	ND	13	1.00	
1,2-Dibromoethane	ND	6.3	1.00	
Dibromomethane	ND	6.3	1.00	
1,2-Dichlorobenzene	ND	6.3	1.00	
1,3-Dichlorobenzene	ND	6.3	1.00	
1,4-Dichlorobenzene	ND	6.3	1.00	
Dichlorodifluoromethane	ND	6.3	1.00	
1,1-Dichloroethane	ND	6.3	1.00	
1,2-Dichloroethane	ND	6.3	1.00	
1,1-Dichloroethene	ND	6.3	1.00	
c-1,2-Dichloroethene	ND	6.3	1.00	
t-1,2-Dichloroethene	ND	6.3	1.00	
1,2-Dichloropropane	ND	6.3	1.00	
1,3-Dichloropropane	ND	6.3	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Parameter	Result	RL	DF	Qualifiers
2,2-Dichloropropane	ND	6.3	1.00	
1,1-Dichloropropene	ND	6.3	1.00	
c-1,3-Dichloropropene	ND	6.3	1.00	
t-1,3-Dichloropropene	ND	6.3	1.00	
Ethylbenzene	ND	6.3	1.00	
2-Hexanone	ND	63	1.00	
Isopropylbenzene	ND	6.3	1.00	
p-Isopropyltoluene	ND	6.3	1.00	
Methylene Chloride	ND	63	1.00	
4-Methyl-2-Pentanone	ND	63	1.00	
Naphthalene	ND	63	1.00	
n-Propylbenzene	ND	6.3	1.00	
Styrene	ND	6.3	1.00	
1,1,1,2-Tetrachloroethane	ND	6.3	1.00	
1,1,2,2-Tetrachloroethane	ND	6.3	1.00	
Tetrachloroethene	ND	6.3	1.00	
Toluene	ND	6.3	1.00	
1,2,3-Trichlorobenzene	ND	13	1.00	
1,2,4-Trichlorobenzene	ND	6.3	1.00	
1,1,1-Trichloroethane	ND	6.3	1.00	
1,1,2-Trichloroethane	ND	6.3	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	63	1.00	
Trichloroethene	ND	6.3	1.00	
1,2,3-Trichloropropane	ND	6.3	1.00	
1,2,4-Trimethylbenzene	ND	6.3	1.00	
Trichlorofluoromethane	ND	63	1.00	
1,3,5-Trimethylbenzene	ND	6.3	1.00	
Vinyl Acetate	ND	63	1.00	
Vinyl Chloride	ND	6.3	1.00	
p/m-Xylene	ND	6.3	1.00	
o-Xylene	ND	6.3	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	6.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	60-132	
Dibromofluoromethane	107	63-141	
1,2-Dichloroethane-d4	115	62-146	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS320	**15-06-0463-2-B**	**06/04/15 11:43**	**Solid**	**GC/MS W**	**06/07/15**	**06/08/15 04:35**	**150607L024**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	180	1.00	
Benzene	ND	7.2	1.00	
Bromobenzene	ND	7.2	1.00	
Bromochloromethane	ND	7.2	1.00	
Bromodichloromethane	ND	7.2	1.00	
Bromoform	ND	7.2	1.00	
Bromomethane	ND	36	1.00	
2-Butanone	ND	72	1.00	
n-Butylbenzene	ND	7.2	1.00	
sec-Butylbenzene	ND	7.2	1.00	
tert-Butylbenzene	ND	7.2	1.00	
Carbon Disulfide	ND	72	1.00	
Carbon Tetrachloride	ND	7.2	1.00	
Chlorobenzene	ND	7.2	1.00	
Chloroethane	ND	7.2	1.00	
Chloroform	ND	7.2	1.00	
Chloromethane	ND	36	1.00	
2-Chlorotoluene	ND	7.2	1.00	
4-Chlorotoluene	ND	7.2	1.00	
Dibromochloromethane	ND	7.2	1.00	
1,2-Dibromo-3-Chloropropane	ND	14	1.00	
1,2-Dibromoethane	ND	7.2	1.00	
Dibromomethane	ND	7.2	1.00	
1,2-Dichlorobenzene	ND	7.2	1.00	
1,3-Dichlorobenzene	ND	7.2	1.00	
1,4-Dichlorobenzene	ND	7.2	1.00	
Dichlorodifluoromethane	ND	7.2	1.00	
1,1-Dichloroethane	ND	7.2	1.00	
1,2-Dichloroethane	ND	7.2	1.00	
1,1-Dichloroethene	ND	7.2	1.00	
c-1,2-Dichloroethene	ND	7.2	1.00	
t-1,2-Dichloroethene	ND	7.2	1.00	
1,2-Dichloropropane	ND	7.2	1.00	
1,3-Dichloropropane	ND	7.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Parameter	Result	RL	DF	Qualifiers
2,2-Dichloropropane	ND	7.2	1.00	
1,1-Dichloropropene	ND	7.2	1.00	
c-1,3-Dichloropropene	ND	7.2	1.00	
t-1,3-Dichloropropene	ND	7.2	1.00	
Ethylbenzene	ND	7.2	1.00	
2-Hexanone	ND	72	1.00	
Isopropylbenzene	ND	7.2	1.00	
p-Isopropyltoluene	ND	7.2	1.00	
Methylene Chloride	ND	72	1.00	
4-Methyl-2-Pentanone	ND	72	1.00	
Naphthalene	ND	72	1.00	
n-Propylbenzene	ND	7.2	1.00	
Styrene	ND	7.2	1.00	
1,1,1,2-Tetrachloroethane	ND	7.2	1.00	
1,1,2,2-Tetrachloroethane	ND	7.2	1.00	
Tetrachloroethene	ND	7.2	1.00	
Toluene	ND	7.2	1.00	
1,2,3-Trichlorobenzene	ND	14	1.00	
1,2,4-Trichlorobenzene	ND	7.2	1.00	
1,1,1-Trichloroethane	ND	7.2	1.00	
1,1,2-Trichloroethane	ND	7.2	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	72	1.00	
Trichloroethene	ND	7.2	1.00	
1,2,3-Trichloropropane	ND	7.2	1.00	
1,2,4-Trimethylbenzene	ND	7.2	1.00	
Trichlorofluoromethane	ND	72	1.00	
1,3,5-Trimethylbenzene	ND	7.2	1.00	
Vinyl Acetate	ND	72	1.00	
Vinyl Chloride	ND	7.2	1.00	
p/m-Xylene	ND	7.2	1.00	
o-Xylene	ND	7.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	60-132	
Dibromofluoromethane	112	63-141	
1,2-Dichloroethane-d4	120	62-146	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS330	**15-06-0463-3-B**	**06/04/15 12:20**	**Solid**	**GC/MS W**	**06/07/15**	**06/08/15 05:05**	**150607L024**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	180	1.00	
Benzene	ND	7.2	1.00	
Bromobenzene	ND	7.2	1.00	
Bromochloromethane	ND	7.2	1.00	
Bromodichloromethane	ND	7.2	1.00	
Bromoform	ND	7.2	1.00	
Bromomethane	ND	36	1.00	
2-Butanone	ND	72	1.00	
n-Butylbenzene	ND	7.2	1.00	
sec-Butylbenzene	ND	7.2	1.00	
tert-Butylbenzene	ND	7.2	1.00	
Carbon Disulfide	ND	72	1.00	
Carbon Tetrachloride	ND	7.2	1.00	
Chlorobenzene	ND	7.2	1.00	
Chloroethane	ND	7.2	1.00	
Chloroform	ND	7.2	1.00	
Chloromethane	ND	36	1.00	
2-Chlorotoluene	ND	7.2	1.00	
4-Chlorotoluene	ND	7.2	1.00	
Dibromochloromethane	ND	7.2	1.00	
1,2-Dibromo-3-Chloropropane	ND	14	1.00	
1,2-Dibromoethane	ND	7.2	1.00	
Dibromomethane	ND	7.2	1.00	
1,2-Dichlorobenzene	ND	7.2	1.00	
1,3-Dichlorobenzene	ND	7.2	1.00	
1,4-Dichlorobenzene	ND	7.2	1.00	
Dichlorodifluoromethane	ND	7.2	1.00	
1,1-Dichloroethane	ND	7.2	1.00	
1,2-Dichloroethane	ND	7.2	1.00	
1,1-Dichloroethene	ND	7.2	1.00	
c-1,2-Dichloroethene	ND	7.2	1.00	
t-1,2-Dichloroethene	ND	7.2	1.00	
1,2-Dichloropropane	ND	7.2	1.00	
1,3-Dichloropropane	ND	7.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Parameter	Result	RL	DF	Qualifiers
2,2-Dichloropropane	ND	7.2	1.00	
1,1-Dichloropropene	ND	7.2	1.00	
c-1,3-Dichloropropene	ND	7.2	1.00	
t-1,3-Dichloropropene	ND	7.2	1.00	
Ethylbenzene	ND	7.2	1.00	
2-Hexanone	ND	72	1.00	
Isopropylbenzene	ND	7.2	1.00	
p-Isopropyltoluene	ND	7.2	1.00	
Methylene Chloride	ND	72	1.00	
4-Methyl-2-Pentanone	ND	72	1.00	
Naphthalene	ND	72	1.00	
n-Propylbenzene	ND	7.2	1.00	
Styrene	ND	7.2	1.00	
1,1,1,2-Tetrachloroethane	ND	7.2	1.00	
1,1,2,2-Tetrachloroethane	ND	7.2	1.00	
Tetrachloroethene	ND	7.2	1.00	
Toluene	ND	7.2	1.00	
1,2,3-Trichlorobenzene	ND	14	1.00	
1,2,4-Trichlorobenzene	ND	7.2	1.00	
1,1,1-Trichloroethane	ND	7.2	1.00	
1,1,2-Trichloroethane	ND	7.2	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	72	1.00	
Trichloroethene	ND	7.2	1.00	
1,2,3-Trichloropropane	ND	7.2	1.00	
1,2,4-Trimethylbenzene	ND	7.2	1.00	
Trichlorofluoromethane	ND	72	1.00	
1,3,5-Trimethylbenzene	ND	7.2	1.00	
Vinyl Acetate	ND	72	1.00	
Vinyl Chloride	ND	7.2	1.00	
p/m-Xylene	ND	7.2	1.00	
o-Xylene	ND	7.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	60-132	
Dibromofluoromethane	106	63-141	
1,2-Dichloroethane-d4	118	62-146	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS340	**15-06-0463-4-B**	**06/04/15 13:57**	**Solid**	**GC/MS W**	**06/07/15**	**06/08/15 05:34**	**150607L024**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	280	1.00	
Benzene	ND	11	1.00	
Bromobenzene	ND	11	1.00	
Bromochloromethane	ND	11	1.00	
Bromodichloromethane	ND	11	1.00	
Bromoform	ND	11	1.00	
Bromomethane	ND	57	1.00	
2-Butanone	ND	110	1.00	
n-Butylbenzene	ND	11	1.00	
sec-Butylbenzene	ND	11	1.00	
tert-Butylbenzene	ND	11	1.00	
Carbon Disulfide	ND	110	1.00	
Carbon Tetrachloride	ND	11	1.00	
Chlorobenzene	ND	11	1.00	
Chloroethane	ND	11	1.00	
Chloroform	ND	11	1.00	
Chloromethane	ND	57	1.00	
2-Chlorotoluene	ND	11	1.00	
4-Chlorotoluene	ND	11	1.00	
Dibromochloromethane	ND	11	1.00	
1,2-Dibromo-3-Chloropropane	ND	23	1.00	
1,2-Dibromoethane	ND	11	1.00	
Dibromomethane	ND	11	1.00	
1,2-Dichlorobenzene	ND	11	1.00	
1,3-Dichlorobenzene	ND	11	1.00	
1,4-Dichlorobenzene	ND	11	1.00	
Dichlorodifluoromethane	ND	11	1.00	
1,1-Dichloroethane	ND	11	1.00	
1,2-Dichloroethane	ND	11	1.00	
1,1-Dichloroethene	ND	11	1.00	
c-1,2-Dichloroethene	ND	11	1.00	
t-1,2-Dichloroethene	ND	11	1.00	
1,2-Dichloropropane	ND	11	1.00	
1,3-Dichloropropane	ND	11	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Parameter	Result	RL	DF	Qualifiers
2,2-Dichloropropane	ND	11	1.00	
1,1-Dichloropropene	ND	11	1.00	
c-1,3-Dichloropropene	ND	11	1.00	
t-1,3-Dichloropropene	ND	11	1.00	
Ethylbenzene	ND	11	1.00	
2-Hexanone	ND	110	1.00	
Isopropylbenzene	ND	11	1.00	
p-Isopropyltoluene	ND	11	1.00	
Methylene Chloride	ND	110	1.00	
4-Methyl-2-Pentanone	ND	110	1.00	
Naphthalene	ND	110	1.00	
n-Propylbenzene	ND	11	1.00	
Styrene	ND	11	1.00	
1,1,1,2-Tetrachloroethane	ND	11	1.00	
1,1,2,2-Tetrachloroethane	ND	11	1.00	
Tetrachloroethene	ND	11	1.00	
Toluene	ND	11	1.00	
1,2,3-Trichlorobenzene	ND	23	1.00	
1,2,4-Trichlorobenzene	ND	11	1.00	
1,1,1-Trichloroethane	ND	11	1.00	
1,1,2-Trichloroethane	ND	11	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	110	1.00	
Trichloroethene	ND	11	1.00	
1,2,3-Trichloropropane	ND	11	1.00	
1,2,4-Trimethylbenzene	ND	11	1.00	
Trichlorofluoromethane	ND	110	1.00	
1,3,5-Trimethylbenzene	ND	11	1.00	
Vinyl Acetate	ND	110	1.00	
Vinyl Chloride	ND	11	1.00	
p/m-Xylene	ND	11	1.00	
o-Xylene	ND	11	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	11	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	60-132	
Dibromofluoromethane	110	63-141	
1,2-Dichloroethane-d4	121	62-146	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS360	**15-06-0463-5-B**	**06/04/15 14:24**	**Solid**	**GC/MS W**	**06/07/15**	**06/08/15 06:03**	**150607L024**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	260	1.00	
Benzene	ND	10	1.00	
Bromobenzene	ND	10	1.00	
Bromochloromethane	ND	10	1.00	
Bromodichloromethane	ND	10	1.00	
Bromoform	ND	10	1.00	
Bromomethane	ND	52	1.00	
2-Butanone	ND	100	1.00	
n-Butylbenzene	ND	10	1.00	
sec-Butylbenzene	ND	10	1.00	
tert-Butylbenzene	ND	10	1.00	
Carbon Disulfide	ND	100	1.00	
Carbon Tetrachloride	ND	10	1.00	
Chlorobenzene	ND	10	1.00	
Chloroethane	ND	10	1.00	
Chloroform	ND	10	1.00	
Chloromethane	ND	52	1.00	
2-Chlorotoluene	ND	10	1.00	
4-Chlorotoluene	ND	10	1.00	
Dibromochloromethane	ND	10	1.00	
1,2-Dibromo-3-Chloropropane	ND	21	1.00	
1,2-Dibromoethane	ND	10	1.00	
Dibromomethane	ND	10	1.00	
1,2-Dichlorobenzene	ND	10	1.00	
1,3-Dichlorobenzene	ND	10	1.00	
1,4-Dichlorobenzene	ND	10	1.00	
Dichlorodifluoromethane	ND	10	1.00	
1,1-Dichloroethane	ND	10	1.00	
1,2-Dichloroethane	ND	10	1.00	
1,1-Dichloroethene	ND	10	1.00	
c-1,2-Dichloroethene	ND	10	1.00	
t-1,2-Dichloroethene	ND	10	1.00	
1,2-Dichloropropane	ND	10	1.00	
1,3-Dichloropropane	ND	10	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Parameter	Result	RL	DF	Qualifiers
2,2-Dichloropropane	ND	10	1.00	
1,1-Dichloropropene	ND	10	1.00	
c-1,3-Dichloropropene	ND	10	1.00	
t-1,3-Dichloropropene	ND	10	1.00	
Ethylbenzene	ND	10	1.00	
2-Hexanone	ND	100	1.00	
Isopropylbenzene	ND	10	1.00	
p-Isopropyltoluene	ND	10	1.00	
Methylene Chloride	ND	100	1.00	
4-Methyl-2-Pentanone	ND	100	1.00	
Naphthalene	ND	100	1.00	
n-Propylbenzene	ND	10	1.00	
Styrene	ND	10	1.00	
1,1,1,2-Tetrachloroethane	ND	10	1.00	
1,1,2,2-Tetrachloroethane	ND	10	1.00	
Tetrachloroethene	ND	10	1.00	
Toluene	ND	10	1.00	
1,2,3-Trichlorobenzene	ND	21	1.00	
1,2,4-Trichlorobenzene	ND	10	1.00	
1,1,1-Trichloroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	10	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	1.00	
Trichloroethene	ND	10	1.00	
1,2,3-Trichloropropane	ND	10	1.00	
1,2,4-Trimethylbenzene	ND	10	1.00	
Trichlorofluoromethane	ND	100	1.00	
1,3,5-Trimethylbenzene	ND	10	1.00	
Vinyl Acetate	ND	100	1.00	
Vinyl Chloride	ND	10	1.00	
p/m-Xylene	ND	10	1.00	
o-Xylene	ND	10	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	60-132	
Dibromofluoromethane	112	63-141	
1,2-Dichloroethane-d4	124	62-146	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS360	**15-06-0463-6-B**	**06/04/15 14:24**	**Solid**	**GC/MS W**	**06/07/15**	**06/08/15 06:33**	**150607L024**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	260	1.00	
Benzene	ND	10	1.00	
Bromobenzene	ND	10	1.00	
Bromochloromethane	ND	10	1.00	
Bromodichloromethane	ND	10	1.00	
Bromoform	ND	10	1.00	
Bromomethane	ND	51	1.00	
2-Butanone	ND	100	1.00	
n-Butylbenzene	ND	10	1.00	
sec-Butylbenzene	ND	10	1.00	
tert-Butylbenzene	ND	10	1.00	
Carbon Disulfide	ND	100	1.00	
Carbon Tetrachloride	ND	10	1.00	
Chlorobenzene	ND	10	1.00	
Chloroethane	ND	10	1.00	
Chloroform	ND	10	1.00	
Chloromethane	ND	51	1.00	
2-Chlorotoluene	ND	10	1.00	
4-Chlorotoluene	ND	10	1.00	
Dibromochloromethane	ND	10	1.00	
1,2-Dibromo-3-Chloropropane	ND	21	1.00	
1,2-Dibromoethane	ND	10	1.00	
Dibromomethane	ND	10	1.00	
1,2-Dichlorobenzene	ND	10	1.00	
1,3-Dichlorobenzene	ND	10	1.00	
1,4-Dichlorobenzene	ND	10	1.00	
Dichlorodifluoromethane	ND	10	1.00	
1,1-Dichloroethane	ND	10	1.00	
1,2-Dichloroethane	ND	10	1.00	
1,1-Dichloroethene	ND	10	1.00	
c-1,2-Dichloroethene	ND	10	1.00	
t-1,2-Dichloroethene	ND	10	1.00	
1,2-Dichloropropane	ND	10	1.00	
1,3-Dichloropropane	ND	10	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Parameter	Result	RL	DF	Qualifiers
2,2-Dichloropropane	ND	10	1.00	
1,1-Dichloropropene	ND	10	1.00	
c-1,3-Dichloropropene	ND	10	1.00	
t-1,3-Dichloropropene	ND	10	1.00	
Ethylbenzene	ND	10	1.00	
2-Hexanone	ND	100	1.00	
Isopropylbenzene	ND	10	1.00	
p-Isopropyltoluene	ND	10	1.00	
Methylene Chloride	ND	100	1.00	
4-Methyl-2-Pentanone	ND	100	1.00	
Naphthalene	ND	100	1.00	
n-Propylbenzene	ND	10	1.00	
Styrene	ND	10	1.00	
1,1,1,2-Tetrachloroethane	ND	10	1.00	
1,1,2,2-Tetrachloroethane	ND	10	1.00	
Tetrachloroethene	ND	10	1.00	
Toluene	ND	10	1.00	
1,2,3-Trichlorobenzene	ND	21	1.00	
1,2,4-Trichlorobenzene	ND	10	1.00	
1,1,1-Trichloroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	10	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	1.00	
Trichloroethene	ND	10	1.00	
1,2,3-Trichloropropane	ND	10	1.00	
1,2,4-Trimethylbenzene	ND	10	1.00	
Trichlorofluoromethane	ND	100	1.00	
1,3,5-Trimethylbenzene	ND	10	1.00	
Vinyl Acetate	ND	100	1.00	
Vinyl Chloride	ND	10	1.00	
p/m-Xylene	ND	10	1.00	
o-Xylene	ND	10	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	60-132	
Dibromofluoromethane	109	63-141	
1,2-Dichloroethane-d4	119	62-146	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-9798**	**N/A**	**Solid**	**GC/MS W**	**06/07/15**	**06/08/15 00:42**	**150607L024**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	60-132	
Dibromofluoromethane	105	63-141	
1,2-Dichloroethane-d4	114	62-146	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS310	**15-06-0463-1**	**06/04/15 11:22**	**Solid**

Comment(s): (9) - Results are reported on a dry weight basis.

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	19.3	0.100	1.00		%	06/08/15	06/08/15	ASTM D-2216 (M)
pH	7.82	0.01	1.00		pH units	06/05/15	06/05/15	EPA 9045D
Carbon, Total Organic (9)	19000	620	1.00		mg/kg	06/17/15	06/17/15	EPA 9060A
Alkalinity, Total (as CaCO3)	440	5.0	1.00		mg/kg	N/A	06/15/15	SM 2320B M
Bicarbonate (as CaCO3)	440	5.0	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Carbonate (as CaCO3)	ND	5.0	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Solids, Total Dissolved	4800	10.0	1.00		mg/kg	06/12/15	06/12/15	SM 2540 C (M)
Phosphorus, Total (9)	2.8	0.62	1.00		mg/kg	06/10/15	06/11/15	SM 4500 P B/E (M)

HCS320	**15-06-0463-2**	**06/04/15 11:43**	**Solid**

Comment(s): (9) - Results are reported on a dry weight basis.

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	29.1	0.100	1.00		%	06/08/15	06/08/15	ASTM D-2216 (M)
pH	8.12	0.01	1.00		pH units	06/05/15	06/05/15	EPA 9045D
Carbon, Total Organic (9)	15000	710	1.00		mg/kg	06/17/15	06/17/15	EPA 9060A
Alkalinity, Total (as CaCO3)	340	5.0	1.00		mg/kg	N/A	06/15/15	SM 2320B M
Bicarbonate (as CaCO3)	340	5.0	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Carbonate (as CaCO3)	ND	5.0	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Solids, Total Dissolved	5930	10.0	1.00		mg/kg	06/12/15	06/12/15	SM 2540 C (M)
Phosphorus, Total (9)	4.3	0.71	1.00		mg/kg	06/10/15	06/11/15	SM 4500 P B/E (M)

HCS330	**15-06-0463-3**	**06/04/15 12:20**	**Solid**

Comment(s): (9) - Results are reported on a dry weight basis.

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	30.6	0.100	1.00		%	06/08/15	06/08/15	ASTM D-2216 (M)
pH	7.68	0.01	1.00		pH units	06/05/15	06/05/15	EPA 9045D
Carbon, Total Organic (9)	15000	720	1.00		mg/kg	06/17/15	06/17/15	EPA 9060A
Alkalinity, Total (as CaCO3)	670	5.0	1.00		mg/kg	N/A	06/15/15	SM 2320B M
Bicarbonate (as CaCO3)	670	5.0	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Carbonate (as CaCO3)	ND	5.0	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Solids, Total Dissolved	17900	100	1.00		mg/kg	06/12/15	06/12/15	SM 2540 C (M)
Phosphorus, Total (9)	2.5	0.72	1.00		mg/kg	06/10/15	06/11/15	SM 4500 P B/E (M)

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS340	**15-06-0463-4**	**06/04/15 13:57**	**Solid**

Comment(s): (9) - Results are reported on a dry weight basis.

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	55.7	0.100	1.00		%	06/08/15	06/08/15	ASTM D-2216 (M)
pH	7.58	0.01	1.00		pH units	06/05/15	06/05/15	EPA 9045D
Carbon, Total Organic (9)	51000	1100	1.00		mg/kg	06/17/15	06/17/15	EPA 9060A
Alkalinity, Total (as CaCO3)	580	5.0	1.00		mg/kg	N/A	06/15/15	SM 2320B M
Bicarbonate (as CaCO3)	580	5.0	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Carbonate (as CaCO3)	ND	5.0	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Solids, Total Dissolved	4160	10.0	1.00		mg/kg	06/12/15	06/12/15	SM 2540 C (M)
Phosphorus, Total (9)	4.8	2.3	2.00		mg/kg	06/10/15	06/11/15	SM 4500 P B/E (M)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS360	**15-06-0463-5**	**06/04/15 14:24**	**Solid**

Comment(s): (9) - Results are reported on a dry weight basis.

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	51.1	0.100	1.00		%	06/08/15	06/08/15	ASTM D-2216 (M)
pH	7.35	0.01	1.00		pH units	06/05/15	06/05/15	EPA 9045D
Carbon, Total Organic (9)	53000	1000	1.00		mg/kg	06/17/15	06/17/15	EPA 9060A
Alkalinity, Total (as CaCO3)	580	5.0	1.00		mg/kg	N/A	06/15/15	SM 2320B M
Bicarbonate (as CaCO3)	580	5.0	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Carbonate (as CaCO3)	ND	5.0	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Solids, Total Dissolved	3460	10.0	1.00		mg/kg	06/12/15	06/12/15	SM 2540 C (M)
Phosphorus, Total (9)	5.6	1.0	1.00		mg/kg	06/10/15	06/11/15	SM 4500 P B/E (M)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
FDHCS360	**15-06-0463-6**	**06/04/15 14:24**	**Solid**

Comment(s): (9) - Results are reported on a dry weight basis.

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	51.2	0.100	1.00		%	06/08/15	06/08/15	ASTM D-2216 (M)
pH	7.41	0.01	1.00		pH units	06/05/15	06/05/15	EPA 9045D
Carbon, Total Organic (9)	50000	1000	1.00		mg/kg	06/17/15	06/17/15	EPA 9060A
Alkalinity, Total (as CaCO3)	590	5.0	1.00		mg/kg	N/A	06/15/15	SM 2320B M
Bicarbonate (as CaCO3)	590	5.0	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Carbonate (as CaCO3)	ND	5.0	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Solids, Total Dissolved	4320	10.0	1.00		mg/kg	06/12/15	06/12/15	SM 2540 C (M)
Phosphorus, Total (9)	5.8	1.0	1.00		mg/kg	06/10/15	06/11/15	SM 4500 P B/E (M)

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
Method Blank		**N/A**	**Solid**

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	ND	0.100	1.00		%	06/08/15	06/08/15	ASTM D-2216 (M)
Carbon, Total Organic	ND	500	1.00		mg/kg	06/17/15	06/17/15	EPA 9060A
Alkalinity, Total (as CaCO3)	ND	5.0	1.00		mg/kg	N/A	06/15/15	SM 2320B M
Bicarbonate (as CaCO3)	ND	5.0	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Carbonate (as CaCO3)	ND	5.0	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Solids, Total Dissolved	ND	1.0	1.00		mg/kg	06/12/15	06/12/15	SM 2540 C (M)
Phosphorus, Total	ND	0.50	1.00		mg/kg	06/10/15	06/11/15	SM 4500 P B/E (M)

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: N/A
Method: EPA 300.0

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0761-7	**Sample**	**Solid**	**IC 10**	**06/10/15**	**06/11/15 04:43**	**150610S01P**
15-06-0761-7	**Matrix Spike**	**Solid**	**IC 10**	**06/10/15**	**06/11/15 05:49**	**150610S01P**
15-06-0761-7	**Matrix Spike Duplicate**	**Solid**	**IC 10**	**06/10/15**	**06/11/15 06:05**	**150610S01P**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Fluoride	3.727	25.00	23.22	78	22.05	73	80-120	5	0-20	3
Chloride	148.7	500.0	687.6	108	679.1	106	80-120	1	0-20	
Bromide	ND	50.00	51.43	103	51.11	102	80-120	1	0-20	
Nitrate (as N)	3.879	50.00	56.64	106	56.02	104	80-120	1	0-20	
Sulfate	96.78	500.0	623.2	105	596.3	100	80-120	4	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	06/05/15
6200 UTSA Blvd., Suite 102	Work Order:	15-06-0463
San Antonio, TX 78249-1618	Preparation:	N/A
	Method:	EPA 9060A
Project: EAA 27122		Page 2 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0792-1	**Sample**	**Solid**	**TOC 5**	**06/17/15**	**06/17/15 13:24**	**F0617TOCS1**
15-06-0792-1	**Matrix Spike**	**Solid**	**TOC 5**	**06/17/15**	**06/17/15 13:24**	**F0617TOCS1**
15-06-0792-1	**Matrix Spike Duplicate**	**Solid**	**TOC 5**	**06/17/15**	**06/17/15 13:24**	**F0617TOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	600.0	30000	23400	76	26500	86	75-125	12	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: N/A
Method: SM 4500 P B/E (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0567-2	**Sample**	**Solid**	**UV 7**	**06/10/15**	**06/11/15 16:26**	**F0611TPS2**
15-06-0567-2	**Matrix Spike**	**Solid**	**UV 7**	**06/10/15**	**06/11/15 16:26**	**F0611TPS2**
15-06-0567-2	**Matrix Spike Duplicate**	**Solid**	**UV 7**	**06/10/15**	**06/11/15 16:26**	**F0611TPS2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	39.46	40.00	80.30	102	80.70	103	70-130	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3050B
Method: EPA 6010B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0761-7	**Sample**	**Solid**	**ICP 7300**	**06/10/15**	**06/11/15 16:44**	**150610S04**
15-06-0761-7	**Matrix Spike**	**Solid**	**ICP 7300**	**06/10/15**	**06/11/15 16:41**	**150610S04**
15-06-0761-7	**Matrix Spike Duplicate**	**Solid**	**ICP 7300**	**06/10/15**	**06/11/15 16:42**	**150610S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Calcium	3794	25.00	4184	4X	4125	4X	75-125	4X	0-20	Q
Magnesium	4342	25.00	4604	4X	4452	4X	75-125	4X	0-20	Q
Potassium	3381	250.0	3940	4X	3785	4X	75-125	4X	0-20	Q
Sodium	192.4	250.0	460.1	107	453.1	104	75-125	2	0-20	
Strontium	35.22	25.00	64.81	118	63.58	113	75-125	2	0-20	
Silicon	563.3	25.00	1145	4X	1253	4X	75-125	4X	0-20	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0498-3	**Sample**	**Solid**	**ICP/MS 04**	**06/08/15**	**06/09/15 13:52**	**150608S01**
15-06-0498-3	**Matrix Spike**	**Solid**	**ICP/MS 04**	**06/08/15**	**06/09/15 13:37**	**150608S01**
15-06-0498-3	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 04**	**06/08/15**	**06/09/15 13:41**	**150608S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	7.402	30	7.364	29	1-97	1	0-39	
Arsenic	7.643	25.00	31.89	97	32.62	100	72-132	2	0-13	
Barium	199.5	25.00	253.0	4X	251.6	4X	50-152	4X	0-41	Q
Beryllium	ND	25.00	27.99	112	28.49	114	61-121	2	0-13	
Cadmium	3.397	25.00	30.51	108	30.54	109	85-121	0	0-12	
Chromium	26.68	25.00	56.30	118	56.01	117	20-182	1	0-15	
Copper	29.47	25.00	56.49	108	56.44	108	25-157	0	0-22	
Lead	8.765	25.00	34.60	103	34.11	101	62-134	1	0-23	
Nickel	48.32	25.00	75.40	108	75.29	108	46-154	0	0-15	
Selenium	ND	25.00	24.77	99	25.16	101	54-132	2	0-14	
Silver	ND	12.50	13.70	110	13.80	110	78-126	1	0-15	
Thallium	ND	25.00	23.93	96	23.94	96	79-115	0	0-11	
Zinc	92.30	25.00	123.9	127	125.9	134	23-173	2	0-18	
Aluminum	11780	25.00	14080	4X	13640	4X	80-120	4X	0-20	Q
Iron	25280	25.00	26930	4X	26960	4X	80-120	4X	0-20	Q
Manganese	332.0	25.00	368.5	4X	366.9	4X	80-120	4X	0-20	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	06/05/15
6200 UTSA Blvd., Suite 102	Work Order:	15-06-0463
San Antonio, TX 78249-1618	Preparation:	EPA 7471A Total
	Method:	EPA 7471A
Project: EAA 27122		Page 6 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
FDHCS360	**Sample**	**Solid**	**Mercury 05**	**06/16/15**	**06/16/15 14:32**	**150616S01**
FDHCS360	**Matrix Spike**	**Solid**	**Mercury 05**	**06/16/15**	**06/16/15 14:34**	**150616S01**
FDHCS360	**Matrix Spike Duplicate**	**Solid**	**Mercury 05**	**06/16/15**	**06/16/15 14:36**	**150616S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.8818	106	0.8495	102	71-137	4	0-14	

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	06/05/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0463
San Antonio, TX 78249-1618		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: EAA 27122			Page 7 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0976-4	**Sample**	**Solid**	**GC 44**	**06/13/15**	**06/16/15 19:48**	**150613S05**
15-06-0976-4	**Matrix Spike**	**Solid**	**GC 44**	**06/13/15**	**06/16/15 17:54**	**150613S05**
15-06-0976-4	**Matrix Spike Duplicate**	**Solid**	**GC 44**	**06/13/15**	**06/16/15 18:08**	**150613S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	19.75	79	19.77	79	50-135	0	0-25	
Alpha-BHC	ND	25.00	20.42	82	20.49	82	50-135	0	0-25	
Beta-BHC	ND	25.00	23.08	92	22.51	90	50-135	3	0-25	
4,4'-DDD	ND	25.00	24.93	100	24.93	100	50-135	0	0-25	
4,4'-DDE	ND	25.00	25.33	101	24.72	99	50-135	2	0-25	
4,4'-DDT	ND	25.00	25.25	101	25.37	101	50-135	0	0-25	
Delta-BHC	ND	25.00	24.11	96	22.99	92	50-135	5	0-25	
Dieldrin	ND	25.00	22.74	91	22.61	90	50-135	1	0-25	
Endosulfan I	ND	25.00	20.87	83	20.52	82	50-135	2	0-25	
Endosulfan II	ND	25.00	23.51	94	23.35	93	50-135	1	0-25	
Endosulfan Sulfate	ND	25.00	24.35	97	23.41	94	50-135	4	0-25	
Endrin	ND	25.00	25.88	104	25.79	103	50-135	0	0-25	
Endrin Aldehyde	ND	25.00	19.93	80	20.21	81	50-135	1	0-25	
Gamma-BHC	ND	25.00	22.06	88	21.76	87	50-135	1	0-25	
Heptachlor	ND	25.00	22.81	91	21.42	86	50-135	6	0-25	
Heptachlor Epoxide	ND	25.00	21.42	86	20.83	83	50-135	3	0-25	
Methoxychlor	ND	25.00	27.39	110	27.84	111	50-135	2	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8082

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0976-4	**Sample**	**Solid**	**GC 31**	**06/13/15**	**06/16/15 14:13**	**150613S06**
15-06-0976-4	**Matrix Spike**	**Solid**	**GC 31**	**06/13/15**	**06/16/15 12:22**	**150613S06**
15-06-0976-4	**Matrix Spike Duplicate**	**Solid**	**GC 31**	**06/13/15**	**06/16/15 12:41**	**150613S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	88.10	88	85.38	85	50-135	3	0-20	
Aroclor-1260	ND	100.0	98.71	99	95.09	95	50-135	4	0-20	

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8141A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0559-2	**Sample**	**Solid**	**GC 26**	**06/08/15**	**06/09/15 15:22**	**150608S12**
15-06-0559-2	**Matrix Spike**	**Solid**	**GC 26**	**06/08/15**	**06/09/15 13:10**	**150608S12**
15-06-0559-2	**Matrix Spike Duplicate**	**Solid**	**GC 26**	**06/08/15**	**06/09/15 13:54**	**150608S12**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	ND	4.000	4.590	115	4.846	121	30-130	5	0-30	
Bolstar	ND	4.000	4.650	116	4.736	118	30-130	2	0-30	
Chlorpyrifos	ND	4.000	4.557	114	4.797	120	30-130	5	0-30	
Coumaphos	ND	4.000	4.506	113	4.732	118	30-130	5	0-30	
Diazinon	ND	4.000	3.212	80	3.627	91	30-130	12	0-30	
Disulfoton	ND	4.000	4.549	114	4.551	114	30-130	0	0-30	
Ethoprop	ND	4.000	3.455	86	3.862	97	30-130	11	0-30	
Fensulfothion	ND	4.000	2.024	51	2.574	64	30-130	24	0-30	
Fenthion	ND	4.000	4.671	117	4.800	120	30-130	3	0-30	
Merphos	ND	4.000	4.906	123	4.949	124	30-130	1	0-30	
Methyl Parathion	ND	4.000	4.468	112	4.479	112	30-130	0	0-30	
Phorate	ND	4.000	4.502	113	4.450	111	30-130	1	0-30	
Ronnel	ND	4.000	4.413	110	4.453	111	30-130	1	0-30	
Stirophos	ND	4.000	2.909	73	3.357	84	30-130	14	0-30	
Tokuthion	ND	4.000	4.687	117	4.860	122	30-130	4	0-30	
Trichloronate	ND	4.000	4.787	120	4.899	122	30-130	2	0-30	

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	06/05/15
6200 UTSA Blvd., Suite 102	Work Order:	15-06-0463
San Antonio, TX 78249-1618	Preparation:	EPA 8151A
	Method:	EPA 8151A
Project: EAA 27122		Page 10 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0559-4	**Sample**	**Solid**	**GC 40**	**06/10/15**	**06/11/15 21:39**	**150610S09**
15-06-0559-4	**Matrix Spike**	**Solid**	**GC 40**	**06/10/15**	**06/11/15 19:44**	**150610S09**
15-06-0559-4	**Matrix Spike Duplicate**	**Solid**	**GC 40**	**06/10/15**	**06/11/15 20:07**	**150610S09**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	ND	400.0	259.5	65	263.7	66	30-130	2	0-30	
2,4,5-T	ND	40.00	26.20	66	26.50	66	30-130	1	0-30	
2,4-DB	ND	400.0	308.8	77	284.7	71	30-130	8	0-30	

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0929-6	**Sample**	**Solid**	**GC/MS SS**	**06/13/15**	**06/15/15 22:33**	**150613S07**
15-06-0929-6	**Matrix Spike**	**Solid**	**GC/MS SS**	**06/13/15**	**06/15/15 21:54**	**150613S07**
15-06-0929-6	**Matrix Spike Duplicate**	**Solid**	**GC/MS SS**	**06/13/15**	**06/15/15 22:13**	**150613S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acenaphthene	ND	10.00	6.707	67	6.505	65	34-148	3	0-20	
Acenaphthylene	ND	10.00	6.711	67	6.521	65	53-120	3	0-20	
Butyl Benzyl Phthalate	ND	10.00	6.733	67	6.630	66	15-189	2	0-20	
4-Chloro-3-Methylphenol	ND	10.00	6.086	61	6.019	60	32-120	1	0-20	
2-Chlorophenol	ND	10.00	5.673	57	5.539	55	53-120	2	0-20	
1,4-Dichlorobenzene	ND	10.00	4.225	42	3.945	39	43-120	7	0-26	3
Dimethyl Phthalate	ND	10.00	6.540	65	6.478	65	44-122	1	0-20	
2,4-Dinitrotoluene	ND	10.00	7.530	75	7.582	76	28-120	1	0-20	
Fluorene	ND	10.00	7.081	71	7.049	70	12-186	0	0-20	
N-Nitroso-di-n-propylamine	ND	10.00	4.716	47	4.522	45	38-140	4	0-20	
Naphthalene	ND	10.00	5.303	53	4.971	50	20-140	6	0-20	
4-Nitrophenol	ND	10.00	5.622	56	5.872	59	14-128	4	0-59	
Pentachlorophenol	ND	10.00	6.067	61	6.228	62	10-124	3	0-20	
Phenol	ND	10.00	5.633	56	5.517	55	22-124	2	0-20	
Pyrene	ND	10.00	6.422	64	6.249	62	31-169	3	0-20	
1,2,4-Trichlorobenzene	ND	10.00	5.249	52	4.815	48	56-120	9	0-20	3

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0712-1	**Sample**	**Aqueous**	**GC/MS V V**	**06/13/15**	**06/13/15 17:14**	**150613S007**
15-06-0712-1	**Matrix Spike**	**Aqueous**	**GC/MS V V**	**06/13/15**	**06/13/15 10:14**	**150613S007**
15-06-0712-1	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS V V**	**06/13/15**	**06/13/15 10:42**	**150613S007**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	50.00	46.15	92	47.23	94	51-171	2	0-20	
Benzene	ND	50.00	60.32	121	54.65	109	80-120	10	0-20	3
Bromobenzene	ND	50.00	65.62	131	60.39	121	54-150	8	0-20	
Bromochloromethane	ND	50.00	50.17	100	45.86	92	77-125	9	0-20	
Bromodichloromethane	ND	50.00	65.43	131	60.26	121	78-126	8	0-20	3
Bromoform	ND	50.00	59.63	119	57.20	114	41-155	4	0-20	
Bromomethane	ND	50.00	70.80	142	64.07	128	30-152	10	0-20	
2-Butanone	ND	50.00	47.59	95	49.76	100	52-160	4	0-20	
n-Butylbenzene	ND	50.00	59.42	119	53.53	107	50-164	10	0-20	
sec-Butylbenzene	ND	50.00	58.33	117	52.26	105	49-157	11	0-20	
tert-Butylbenzene	ND	50.00	61.28	123	54.78	110	48-156	11	0-20	
Carbon Disulfide	ND	50.00	70.54	141	62.65	125	69-123	12	0-20	3
Carbon Tetrachloride	ND	50.00	60.98	122	53.99	108	62-140	12	0-20	
Chlorobenzene	ND	50.00	62.35	125	56.67	113	52-148	10	0-20	
Chloroethane	ND	50.00	52.19	104	46.08	92	66-132	12	0-20	
Chloroform	ND	50.00	62.85	126	57.63	115	80-122	9	0-20	3
Chloromethane	ND	50.00	65.49	131	56.98	114	45-147	14	0-20	
2-Chlorotoluene	ND	50.00	61.84	124	56.68	113	51-153	9	0-20	
4-Chlorotoluene	ND	50.00	58.24	116	53.32	107	49-151	9	0-20	
Dibromochloromethane	ND	50.00	66.08	132	62.12	124	48-150	6	0-20	
1,2-Dibromo-3-Chloropropane	ND	50.00	52.16	104	50.64	101	46-142	3	0-20	
1,2-Dibromoethane	ND	50.00	63.97	128	60.94	122	51-147	5	0-20	
Dibromomethane	ND	50.00	60.93	122	57.97	116	80-123	5	0-20	
1,2-Dichlorobenzene	ND	50.00	58.79	118	55.38	111	51-147	6	0-20	
1,3-Dichlorobenzene	ND	50.00	59.71	119	54.64	109	49-151	9	0-20	
1,4-Dichlorobenzene	ND	50.00	60.36	121	55.49	111	51-147	8	0-20	
Dichlorodifluoromethane	ND	50.00	58.89	118	51.88	104	30-170	13	0-20	
1,1-Dichloroethane	ND	50.00	58.06	116	53.13	106	67-127	9	0-20	
1,2-Dichloroethane	ND	50.00	61.85	124	58.79	118	73-133	5	0-20	
1,1-Dichloroethene	ND	50.00	68.97	138	61.73	123	68-128	11	0-20	3
c-1,2-Dichloroethene	ND	50.00	64.22	128	58.47	117	77-125	9	0-20	3
t-1,2-Dichloroethene	ND	50.00	65.81	132	59.15	118	71-131	11	0-20	3
1,2-Dichloropropane	ND	50.00	61.70	123	56.77	114	80-120	8	0-20	3
1,3-Dichloropropane	ND	50.00	64.05	128	60.98	122	50-146	5	0-20	
2,2-Dichloropropane	ND	50.00	69.48	139	61.93	124	30-170	11	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 5030C
Method: EPA 8260B

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	50.00	58.82	118	52.21	104	75-129	12	0-20	
c-1,3-Dichloropropene	ND	50.00	66.55	133	61.44	123	80-124	8	0-20	3
t-1,3-Dichloropropene	ND	50.00	64.61	129	60.32	121	47-143	7	0-20	
Ethylbenzene	ND	50.00	65.16	130	58.67	117	54-150	10	0-20	
2-Hexanone	ND	50.00	53.27	107	53.33	107	44-152	0	0-20	
Isopropylbenzene	ND	50.00	62.91	126	56.56	113	52-154	11	0-20	
p-Isopropyltoluene	ND	50.00	61.89	124	55.68	111	49-151	11	0-20	
Methylene Chloride	ND	50.00	66.23	132	61.69	123	73-127	7	0-20	3
4-Methyl-2-Pentanone	ND	50.00	53.25	107	55.82	112	70-124	5	0-20	
Naphthalene	ND	50.00	50.20	100	49.55	99	39-153	1	0-20	
n-Propylbenzene	ND	50.00	60.95	122	54.84	110	49-157	11	0-20	
Styrene	ND	50.00	64.25	128	59.29	119	54-150	8	0-20	
1,1,1,2-Tetrachloroethane	ND	50.00	70.23	140	65.63	131	50-152	7	0-20	
1,1,2,2-Tetrachloroethane	ND	50.00	59.40	119	57.57	115	44-146	3	0-20	
Tetrachloroethene	ND	50.00	60.72	121	52.87	106	34-170	14	0-20	
Toluene	ND	50.00	65.50	131	58.89	118	80-120	11	0-20	3
1,2,3-Trichlorobenzene	ND	50.00	57.76	116	54.81	110	41-161	5	0-20	
1,2,4-Trichlorobenzene	ND	50.00	58.98	118	55.36	111	41-161	6	0-20	
1,1,1-Trichloroethane	ND	50.00	67.27	135	59.13	118	75-129	13	0-20	3
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50.00	75.94	152	66.46	133	54-156	13	0-20	
1,1,2-Trichloroethane	ND	50.00	60.53	121	58.06	116	51-147	4	0-20	
Trichloroethene	ND	50.00	66.25	133	59.17	118	80-120	11	0-20	3
Trichlorofluoromethane	ND	50.00	60.12	120	52.62	105	61-145	13	0-20	
1,2,3-Trichloropropane	ND	50.00	56.93	114	56.85	114	51-147	0	0-20	
1,2,4-Trimethylbenzene	ND	50.00	60.42	121	55.19	110	56-152	9	0-20	
1,3,5-Trimethylbenzene	ND	50.00	66.37	133	60.95	122	56-158	9	0-20	
Vinyl Acetate	ND	50.00	71.87	144	69.70	139	35-167	3	0-20	
Vinyl Chloride	ND	50.00	58.36	117	51.44	103	67-133	13	0-20	
p/m-Xylene	ND	100.0	117.1	117	106.5	106	51-153	9	0-20	
o-Xylene	ND	50.00	58.46	117	53.47	107	51-153	9	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	57.98	116	55.94	112	64-130	4	0-20	

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SWCA Environmental Consultants		Date Received:	06/05/15
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San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 14 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0547-10	**Sample**	**Solid**	**GC/MS W**	**06/07/15**	**06/08/15 01:40**	**150607S007**
15-06-0547-10	**Matrix Spike**	**Solid**	**GC/MS W**	**06/07/15**	**06/08/15 02:09**	**150607S007**
15-06-0547-10	**Matrix Spike Duplicate**	**Solid**	**GC/MS W**	**06/07/15**	**06/08/15 02:38**	**150607S007**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	42.85	86	45.55	91	61-127	6	0-20	
Carbon Tetrachloride	ND	50.00	44.95	90	47.45	95	51-135	5	0-29	
Chlorobenzene	ND	50.00	39.37	79	41.75	84	57-123	6	0-20	
1,2-Dibromoethane	ND	50.00	42.83	86	43.60	87	64-124	2	0-20	
1,2-Dichlorobenzene	ND	50.00	36.73	73	37.92	76	35-131	3	0-25	
1,2-Dichloroethane	ND	50.00	48.74	97	49.50	99	80-120	2	0-20	
1,1-Dichloroethene	ND	50.00	48.65	97	50.57	101	47-143	4	0-25	
Ethylbenzene	ND	50.00	41.88	84	44.53	89	57-129	6	0-22	
Toluene	ND	50.00	42.10	84	44.90	90	63-123	6	0-20	
Trichloroethene	ND	50.00	47.97	96	50.35	101	44-158	5	0-20	
Vinyl Chloride	ND	50.00	48.13	96	53.17	106	49-139	10	0-47	
p/m-Xylene	ND	100.0	84.06	84	88.21	88	70-130	5	0-30	
o-Xylene	ND	50.00	42.15	84	43.91	88	70-130	4	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	42.96	86	43.24	86	57-123	1	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
15-06-0498-3	**Sample**	**Solid**	**ICP/MS 04**	**06/08/15 00:00**	**06/09/15 13:52**	**150608S01**
15-06-0498-3	**PDS**	**Solid**	**ICP/MS 04**	**06/08/15 00:00**	**06/09/15 13:45**	**150608S01**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Antimony	ND	25.00	26.69	107	75-125	
Arsenic	7.643	25.00	33.82	105	75-125	
Barium	199.5	25.00	227.8	4X	75-125	Q
Beryllium	ND	25.00	27.15	109	75-125	
Cadmium	3.397	25.00	29.90	106	75-125	
Chromium	26.68	25.00	53.76	108	75-125	
Copper	29.47	25.00	55.21	103	75-125	
Lead	8.765	25.00	34.90	105	75-125	
Nickel	48.32	25.00	73.02	99	75-125	
Selenium	ND	25.00	27.82	111	75-125	
Silver	ND	12.50	12.69	102	75-125	
Thallium	ND	25.00	26.06	104	75-125	
Zinc	92.30	25.00	123.1	123	75-125	
Aluminum	11780	25.00	11860	4X	75-125	Q
Iron	25280	25.00	25040	4X	75-125	Q
Manganese	332.0	25.00	353.2	4X	75-125	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: N/A
Method: ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-06-0567-1	**Sample**	**Solid**	**N/A**	**06/08/15 00:00**	**06/08/15 20:00**	**F0608MOID6**
15-06-0567-1	**Sample Duplicate**	**Solid**	**N/A**	**06/08/15 00:00**	**06/08/15 20:00**	**F0608MOID6**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	71.30	72.00	1	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: N/A
Method: SM 2320B M

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-06-0770-3	**Sample**	**Solid**	**PH1/BUR03**	**N/A**	**06/15/15 16:35**	**F0615ALKD2**
15-06-0770-3	**Sample Duplicate**	**Solid**	**PH1/BUR03**	**N/A**	**06/15/15 16:35**	**F0615ALKD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	200.0	195.0	3	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: N/A
Method: SM 2320B M

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-06-0770-3	**Sample**	**Solid**	**PH1/BUR03**	**06/15/15 00:00**	**06/15/15 16:35**	**F0615HCOD2**
15-06-0770-3	**Sample Duplicate**	**Solid**	**PH1/BUR03**	**06/15/15 00:00**	**06/15/15 16:35**	**F0615HCOD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Bicarbonate (as CaCO3)	200.0	195.0	3	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: N/A
Method: SM 2320B M

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-06-0770-3	**Sample**	**Solid**	**PH1/BUR03**	**06/15/15 00:00**	**06/15/15 16:35**	**F0615CO3D2**
15-06-0770-3	**Sample Duplicate**	**Solid**	**PH1/BUR03**	**06/15/15 00:00**	**06/15/15 16:35**	**F0615CO3D2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Carbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: N/A
Method: SM 2540 C (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HCS330	**Sample**	**Solid**	**SC 2**	**06/12/15 00:00**	**06/12/15 19:00**	**F0612TDSD4**
HCS330	**Sample Duplicate**	**Solid**	**SC 2**	**06/12/15 00:00**	**06/12/15 19:00**	**F0612TDSD4**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	17870	17900	0	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/05/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0463
San Antonio, TX 78249-1618		Preparation:	N/A
		Method:	EPA 300.0
Project: EAA 27122			Page 1 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-922-584	**LCS**	**Solid**	**IC 10**	**06/10/15**	**06/11/15 00:37**	**150610L01P**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Fluoride	25.00	23.96	96	90-110	
Chloride	500.0	537.1	107	90-110	
Bromide	50.00	51.66	103	90-110	
Nitrate (as N)	50.00	53.74	107	90-110	
Sulfate	500.0	541.4	108	90-110	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: N/A
Method: EPA 9060A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-013-1274	**LCS**	**Solid**	**TOC 5**	**06/17/15**	**06/17/15 15:52**	**F0617TOCL1**
099-06-013-1274	**LCSD**	**Solid**	**TOC 5**	**06/17/15**	**06/17/15 15:52**	**F0617TOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	6000	6524	109	6516	109	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/05/15
Work Order: 15-06-0463
Preparation: N/A
Method: SM 4500 P B/E (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-001-5419	**LCS**	**Solid**	**UV 7**	**06/10/15**	**06/11/15 16:26**	**F0611TPL2**
099-05-001-5419	**LCSD**	**Solid**	**UV 7**	**06/10/15**	**06/11/15 16:26**	**F0611TPL2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	2.000	1.940	97	1.945	97	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/05/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0463
San Antonio, TX 78249-1618		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: EAA 27122			Page 4 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-21188	**LCS**	**Solid**	**ICP 7300**	**06/10/15**	**06/11/15 16:39**	**150610L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Calcium	25.00	26.08	104	80-120	
Magnesium	25.00	25.28	101	80-120	
Potassium	250.0	256.9	103	80-120	
Sodium	250.0	250.5	100	80-120	
Strontium	25.00	24.61	98	80-120	
Silicon	25.00	23.68	95	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/05/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0463
San Antonio, TX 78249-1618		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: EAA 27122			Page 5 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-953	**LCS**	**Solid**	**ICP/MS 04**	**06/08/15**	**06/09/15 13:33**	**150608L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	25.40	102	80-120	73-127	
Arsenic	25.00	25.07	100	80-120	73-127	
Barium	25.00	25.73	103	80-120	73-127	
Beryllium	25.00	28.52	114	80-120	73-127	
Cadmium	25.00	26.46	106	80-120	73-127	
Chromium	25.00	27.65	111	80-120	73-127	
Copper	25.00	27.47	110	80-120	73-127	
Lead	25.00	25.94	104	80-120	73-127	
Nickel	25.00	26.52	106	80-120	73-127	
Selenium	25.00	26.62	106	80-120	73-127	
Silver	12.50	12.57	101	80-120	73-127	
Thallium	25.00	25.32	101	80-120	73-127	
Zinc	25.00	27.45	110	80-120	73-127	
Aluminum	25.00	25.57	102	80-120	73-127	
Iron	25.00	30.84	123	80-120	73-127	ME
Manganese	25.00	26.87	107	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 1
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/05/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0463
San Antonio, TX 78249-1618		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: EAA 27122			Page 6 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-1352	**LCS**	**Solid**	**Mercury 05**	**06/16/15**	**06/16/15 14:30**	**150616L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.9767	117	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/05/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0463
San Antonio, TX 78249-1618		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: EAA 27122			Page 7 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-2140	**LCS**	**Solid**	**GC 44**	**06/13/15**	**06/16/15 20:03**	**150613L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	22.10	88	50-135	36-149	
Alpha-BHC	25.00	21.00	84	50-135	36-149	
Beta-BHC	25.00	22.14	89	50-135	36-149	
4,4'-DDD	25.00	25.08	100	50-135	36-149	
4,4'-DDE	25.00	25.18	101	50-135	36-149	
4,4'-DDT	25.00	24.78	99	50-135	36-149	
Delta-BHC	25.00	22.71	91	50-135	36-149	
Dieldrin	25.00	24.27	97	50-135	36-149	
Endosulfan I	25.00	22.44	90	50-135	36-149	
Endosulfan II	25.00	23.55	94	50-135	36-149	
Endosulfan Sulfate	25.00	24.34	97	50-135	36-149	
Endrin	25.00	27.85	111	50-135	36-149	
Endrin Aldehyde	25.00	21.15	85	50-135	36-149	
Gamma-BHC	25.00	22.42	90	50-135	36-149	
Heptachlor	25.00	24.40	98	50-135	36-149	
Heptachlor Epoxide	25.00	23.13	93	50-135	36-149	
Methoxychlor	25.00	27.88	112	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/05/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0463
San Antonio, TX 78249-1618		Preparation:	EPA 3545
		Method:	EPA 8082
Project: EAA 27122			Page 8 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-3269	**LCS**	**Solid**	**GC 31**	**06/13/15**	**06/16/15 11:02**	**150613L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	106.4	106	50-135	
Aroclor-1260	100.0	93.42	93	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/05/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0463
San Antonio, TX 78249-1618		Preparation:	EPA 3545
		Method:	EPA 8141A
Project: EAA 27122			Page 9 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-973-187	**LCS**	**Solid**	**GC 26**	**06/08/15**	**06/09/15 12:25**	**150608L12**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Azinphos Methyl	4.000	4.834	121	30-130	13-147	
Bolstar	4.000	4.652	116	30-130	13-147	
Chlorpyrifos	4.000	4.669	117	30-130	13-147	
Coumaphos	4.000	5.010	125	30-130	13-147	
Diazinon	4.000	4.173	104	30-130	13-147	
Disulfoton	4.000	5.113	128	30-130	13-147	
Ethoprop	4.000	4.134	103	30-130	13-147	
Fensulfothion	4.000	4.946	124	30-130	13-147	
Fenthion	4.000	4.893	122	30-130	13-147	
Merphos	4.000	4.870	122	30-130	13-147	
Methyl Parathion	4.000	4.779	119	30-130	13-147	
Phorate	4.000	4.829	121	30-130	13-147	
Ronnel	4.000	5.118	128	30-130	13-147	
Stirophos	4.000	4.586	115	30-130	13-147	
Tokuthion	4.000	5.025	126	30-130	13-147	
Trichloronate	4.000	5.092	127	30-130	13-147	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/05/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0463
San Antonio, TX 78249-1618		Preparation:	EPA 8151A
		Method:	EPA 8151A
Project: EAA 27122			Page 10 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
095-01-033-1294	**LCS**	**Solid**	**GC 40**	**06/10/15**	**06/11/15 18:57**	**150610L09**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
2,4-D	400.0	284.1	71	30-130	
2,4,5-T	40.00	28.70	72	30-130	
2,4-DB	400.0	291.7	73	30-130	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/05/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0463
San Antonio, TX 78249-1618		Preparation:	EPA 3545
		Method:	EPA 8270C
Project: EAA 27122			Page 11 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-549-3310	**LCS**	**Solid**	**GC/MS SS**	**06/13/15**	**06/15/15 21:35**	**150613L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acenaphthene	10.00	8.591	86	51-123	39-135	
Acenaphthylene	10.00	8.478	85	52-120	41-131	
Butyl Benzyl Phthalate	10.00	8.423	84	43-139	27-155	
4-Chloro-3-Methylphenol	10.00	7.741	77	55-121	44-132	
2-Chlorophenol	10.00	7.668	77	58-124	47-135	
1,4-Dichlorobenzene	10.00	6.881	69	42-132	27-147	
Dimethyl Phthalate	10.00	8.440	84	51-123	39-135	
2,4-Dinitrotoluene	10.00	9.918	99	51-129	38-142	
Fluorene	10.00	9.052	91	54-126	42-138	
N-Nitroso-di-n-propylamine	10.00	6.254	63	40-136	24-152	
Naphthalene	10.00	7.284	73	32-146	13-165	
4-Nitrophenol	10.00	7.807	78	24-126	7-143	
Pentachlorophenol	10.00	8.981	90	23-131	5-149	
Phenol	10.00	7.050	71	40-130	25-145	
Pyrene	10.00	7.960	80	47-143	31-159	
1,2,4-Trichlorobenzene	10.00	7.701	77	45-129	31-143	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/05/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0463
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 12 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-17397	**LCS**	**Aqueous**	**GC/MS V V**	**06/13/15**	**06/13/15 09:32**	**150613L025**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	50.56	101	80-120	73-127	
Carbon Tetrachloride	50.00	49.57	99	67-139	55-151	
Chlorobenzene	50.00	52.02	104	78-120	71-127	
1,2-Dibromoethane	50.00	56.81	114	80-120	73-127	
1,2-Dichlorobenzene	50.00	52.02	104	63-129	52-140	
1,2-Dichloroethane	50.00	54.92	110	70-130	60-140	
1,1-Dichloroethene	50.00	56.26	113	66-126	56-136	
Ethylbenzene	50.00	53.93	108	80-123	73-130	
Toluene	50.00	54.97	110	80-120	73-127	
Trichloroethene	50.00	54.93	110	80-122	73-129	
Vinyl Chloride	50.00	49.17	98	70-130	60-140	
p/m-Xylene	100.0	97.56	98	75-123	67-131	
o-Xylene	50.00	48.99	98	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	51.57	103	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/05/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0463
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 13 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-796-9798	**LCS**	**Solid**	**GC/MS W**	**06/07/15**	**06/07/15 23:44**	**150607L024**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	51.97	104	78-120	71-127	
Carbon Tetrachloride	50.00	54.37	109	49-139	34-154	
Chlorobenzene	50.00	49.55	99	79-120	72-127	
1,2-Dibromoethane	50.00	52.72	105	80-120	73-127	
1,2-Dichlorobenzene	50.00	47.85	96	75-120	68-128	
1,2-Dichloroethane	50.00	61.22	122	80-120	73-127	ME
1,1-Dichloroethene	50.00	54.63	109	74-122	66-130	
Ethylbenzene	50.00	52.06	104	76-120	69-127	
Toluene	50.00	51.93	104	77-120	70-127	
Trichloroethene	50.00	55.04	110	80-120	73-127	
Vinyl Chloride	50.00	55.08	110	68-122	59-131	
p/m-Xylene	100.0	104.9	105	75-125	67-133	
o-Xylene	50.00	51.87	104	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)	50.00	51.75	103	77-120	70-127	

Total number of LCS compounds: 14
Total number of ME compounds: 1
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 15-06-0463 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **15-06-0463**

DATE: 06/04/15

PAGE: 1 OF 1

LABORATORY CLIENT: SWCA Environmental Consultants

ADDRESS: 6200 UTSA Blvd. Suite 102

CITY: San Antonio STATE: TX ZIP: 78249-1618

TEL: 210.877.2847 E-MAIL: PPearce@swca.com

CLIENT PROJECT NAME / NUMBER: EAA 27122

P.O. NO.:

PROJECT CONTACT: Philip Pearce

SAMPLER(S): (PRINT) Philip Pearce/Jennifer Moreland

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 10 Days (standard)

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Please analyze each sample for pH

EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 6010B (Si, Ca, Mg, K, Na, Sr)	EPA 6020 (See Comments)	EPA 7470A Mercury	EPA 1694 (M) Caffeine	EPA 8081A Organochlorine Pesticides	EPA 8082 PCB Aroclors	EPA 8141A Organophosphorus Pest	EPA 8151A Chlorinated Herbicides	EPA 8270C Semi-Volatile Organics	EPA 8260B Volatile Organics	EPA 300 Anions (F, Cl, Br, NO3, SO4)	EPA 365.1 Total Phosphorus	SM 2320B Alkalinity: Total, Bicarb, Carb	SM 5310B TOC	9040C pH	SM 5310B Solids, Total Dissolved	SM 4500 N Org B TKN	EPA 160.2 TSS
1	HCS310	6/4/2015	1122	Solid	2	2			X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		
2	HCS320	6/4/2015	1143	Solid	2	2			X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		
3	HCS330	6/4/2015	1220	Solid	2	2			X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		
4	HCS340	6/4/2015	1357	Solid	2	2			X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		
5	HCS360	6/4/2015	1424	Solid	2	2			X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		
6	FDHCS360	6/4/2015	1424	Solid	2	2			X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		
7	TB07	6/4/15		WPW	1													X								

Relinquished by: (Signature) Jennifer Moreland SWCA	Received by: (Signature/Affiliation)	Date: 6/4/15	Time: 16:15
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 6/5/15	Time: 0940

06/02/14 Revision

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0463

ORIGIN ID:SATA (210) 877-2847
SWCA INC

6200 UTSA BLVD STE 102

SAN ANTONIO, TX 782491618
UNITED STATES US

SHIP DATE: 04JUN15
ACTWGT: 33.4 LB
CAD: /OFFC1601
DIMS: 20x15x12 IN

BILL SENDER

TO

CALSCIENCE
7440 LINCOLN WAY

GARDEN GROVE CA 92841
(714) 895-5494
INV:
PO:
REF:
DEPT:

Part # 156297-435 RIT2 12/14

FedEx
Express

TRK# 0215 8062 7398 5439

FRI - 05 JUN AA
STANDARD OVERNIGHT

A7 APVA

DSR
92841
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WORK ORDER NUMBER: 15-06- 0463

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: SWCA

DATE: 06 / 05 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.1 °C (w/ CF): 2.8 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: IS

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: IS

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 965

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: 150508B)

Aqueous: ☐ VOA ☑ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** ☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☑ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☑ 2ozCGJ

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 963

Reviewed by: 962

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WORK ORDER NUMBER: 15-06-0567

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: SWCA Environmental Consultants

Client Project Name: EAA 27122

Attention: Philip Pearce
6200 UTSA Blvd.
Suite 102
San Antonio, TX 78249-1618

FOR

Approved for release on 06/25/2015 by:
Don Burley
Project Manager

ResultLink

Email your PM

ACCREDITED IN ACCORDANCE WITH nelac

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Contents

Client Project Name: EAA 27122
Work Order Number: 15-06-0567

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Work Order Narrative

Work Order: 15-06-0567 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 06/06/15. They were assigned to Work Order 15-06-0567.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Solid Samples 15-06-0567-7, -8 (HSM370 and FDHSM370) for TOC analysis contained a combination of soil, sand, gravel, and water.

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Sample Summary

Client:	SWCA Environmental Consultants	Work Order:	15-06-0567
	6200 UTSA Blvd., Suite 102	Project Name:	EAA 27122
	San Antonio, TX 78249-1618	PO Number:	
		Date/Time Received:	06/06/15 09:30
		Number of Containers:	26
Attn:	Philip Pearce		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
HSM310	15-06-0567-1	06/05/15 10:03	2	Solid
HSM320	15-06-0567-2	06/05/15 10:48	2	Solid
HSM330	15-06-0567-3	06/05/15 11:03	2	Solid
HSM340	15-06-0567-4	06/05/15 11:21	2	Solid
HSM350	15-06-0567-5	06/05/15 12:24	2	Solid
HSM360	15-06-0567-6	06/05/15 13:13	2	Solid
HSM370	15-06-0567-7	06/05/15 13:51	2	Solid
FDHSM370	15-06-0567-8	06/05/15 13:51	2	Solid
TB08	15-06-0567-9	06/05/15 00:00	1	Aqueous
EB01	15-06-0567-10	06/05/15 15:41	9	Aqueous

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB01	**15-06-0567-10-I**	**06/05/15 15:41**	**Aqueous**	**IC 7**	**N/A**	**06/06/15 13:27**	**150606L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	ND	0.10	0.025	1.00	
Chloride	ND	1.0	0.12	1.00	
Bromide	ND	0.10	0.037	1.00	
Nitrate (as N)	ND	0.10	0.025	1.00	
Sulfate	ND	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-906-5827**	**N/A**	**Aqueous**	**IC 7**	**N/A**	**06/06/15 10:26**	**150606L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	ND	0.10	0.025	1.00	
Chloride	ND	1.0	0.12	1.00	
Bromide	ND	0.10	0.037	1.00	
Nitrate (as N)	ND	0.10	0.025	1.00	
Sulfate	ND	1.0	0.19	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: EPA 300.0
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM310	**15-06-0567-1-A**	**06/05/15 10:03**	**Solid**	**IC 10**	**06/09/15**	**06/09/15 12:15**	**150609L01P**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	5.5	3.5	1.1	1.00	
Chloride	55	35	5.1	1.00	
Bromide	ND	3.5	1.2	1.00	
Nitrate (as N)	1.2	3.5	0.85	1.00	J
Sulfate	420	35	7.4	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM320	**15-06-0567-2-A**	**06/05/15 10:48**	**Solid**	**IC 10**	**06/09/15**	**06/09/15 12:31**	**150609L01P**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	6.2	5.1	1.6	1.00	
Chloride	84	51	7.4	1.00	
Bromide	ND	5.1	1.8	1.00	
Nitrate (as N)	2.0	5.1	1.2	1.00	J
Sulfate	220	51	11	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM330	**15-06-0567-3-A**	**06/05/15 11:03**	**Solid**	**IC 10**	**06/09/15**	**06/09/15 12:48**	**150609L01P**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.92	1.3	0.39	1.00	J
Chloride	7.7	13	1.8	1.00	J
Bromide	ND	1.3	0.45	1.00	
Nitrate (as N)	0.73	1.3	0.31	1.00	J
Sulfate	11	13	2.7	1.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: EPA 300.0
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM340	**15-06-0567-4-A**	**06/05/15 11:21**	**Solid**	**IC 10**	**06/09/15**	**06/09/15 13:04**	**150609L01P**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	2.0	1.2	0.39	1.00	
Chloride	7.9	12	1.8	1.00	J
Bromide	ND	1.2	0.44	1.00	
Nitrate (as N)	ND	1.2	0.30	1.00	
Sulfate	26	12	2.6	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM350	**15-06-0567-5-A**	**06/05/15 12:24**	**Solid**	**IC 10**	**06/09/15**	**06/09/15 13:21**	**150609L01P**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	2.8	2.2	0.68	1.00	
Chloride	27	22	3.2	1.00	
Bromide	ND	2.2	0.78	1.00	
Nitrate (as N)	ND	2.2	0.53	1.00	
Sulfate	130	22	4.6	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM360	**15-06-0567-6-A**	**06/05/15 13:13**	**Solid**	**IC 10**	**06/09/15**	**06/09/15 13:37**	**150609L01P**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	1.3	1.3	0.42	1.00	J
Chloride	8.9	13	2.0	1.00	J
Bromide	ND	1.3	0.48	1.00	
Nitrate (as N)	0.56	1.3	0.33	1.00	J
Sulfate	13	13	2.8	1.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: EPA 300.0
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM370	**15-06-0567-7-A**	**06/05/15 13:51**	**Solid**	**IC 10**	**06/09/15**	**06/09/15 13:53**	**150609L01P**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	1.7	1.7	0.53	1.00	
Chloride	17	17	2.5	1.00	J
Bromide	ND	1.7	0.61	1.00	
Nitrate (as N)	0.69	1.7	0.42	1.00	J
Sulfate	30	17	3.6	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM370	**15-06-0567-8-A**	**06/05/15 13:51**	**Solid**	**IC 10**	**06/09/15**	**06/09/15 14:10**	**150609L01P**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	2.0	1.8	0.57	1.00	
Chloride	16	18	2.7	1.00	J
Bromide	ND	1.8	0.66	1.00	
Nitrate (as N)	0.61	1.8	0.45	1.00	J
Sulfate	38	18	3.9	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-922-582**	**N/A**	**Solid**	**IC 10**	**06/09/15**	**06/09/15 11:39**	**150609L01P**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	ND	1.0	0.31	1.00	
Chloride	ND	10	1.5	1.00	
Bromide	ND	1.0	0.36	1.00	
Nitrate (as N)	ND	1.0	0.24	1.00	
Sulfate	ND	10	2.1	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM310	**15-06-0567-1-BB**	**06/05/15 10:03**	**Solid**	**ICP 7300**	**06/11/15**	**06/24/15 17:13**	**150611L09A**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	150000	17.3	1.32	0.995	
Magnesium	3850	17.3	0.587	0.995	
Potassium	3010	86.7	6.08	0.995	
Sodium	334	86.7	6.29	0.995	
Strontium	295	5.20	0.477	0.995	
Silicon	3190	17.3	4.57	0.995	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM320	**15-06-0567-2-BB**	**06/05/15 10:48**	**Solid**	**ICP 7300**	**06/11/15**	**06/24/15 17:20**	**150611L09A**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	200000	26.9	2.04	1.05	
Magnesium	6770	26.9	0.909	1.05	
Potassium	4540	134	9.42	1.05	
Sodium	670	134	9.75	1.05	
Strontium	342	8.06	0.739	1.05	
Silicon	5380	26.9	7.07	1.05	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM330	**15-06-0567-3-BB**	**06/05/15 11:03**	**Solid**	**ICP 7300**	**06/11/15**	**06/24/15 17:22**	**150611L09A**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	274000	65.2	4.96	10.4	
Magnesium	3500	65.2	2.21	10.4	
Potassium	741	326	22.9	10.4	
Sodium	422	326	23.7	10.4	
Strontium	149	19.6	1.79	10.4	
Silicon	965	65.2	17.2	10.4	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM340	**15-06-0567-4-BB**	**06/05/15 11:21**	**Solid**	**ICP 7300**	**06/11/15**	**06/24/15 17:25**	**150611L09A**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	224000	64.9	4.94	10.4	
Magnesium	3450	64.9	2.20	10.4	
Potassium	1120	325	22.8	10.4	
Sodium	344	325	23.6	10.4	
Strontium	151	19.5	1.79	10.4	
Silicon	1510	64.9	17.1	10.4	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM350	**15-06-0567-5-BB**	**06/05/15 12:24**	**Solid**	**ICP 7300**	**06/11/15**	**06/24/15 17:27**	**150611L09A**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	158000	111	8.46	10.2	
Magnesium	3470	111	3.76	10.2	
Potassium	1500	556	39.0	10.2	
Sodium	245	556	40.4	10.2	J
Strontium	211	33.3	3.06	10.2	
Silicon	2500	111	29.3	10.2	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM360	**15-06-0567-6-BB**	**06/05/15 13:13**	**Solid**	**ICP 7300**	**06/11/15**	**06/24/15 17:30**	**150611L09A**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	214000	70.3	5.35	10.5	
Magnesium	2880	70.3	2.38	10.5	
Potassium	1620	351	24.7	10.5	
Sodium	183	351	25.5	10.5	J
Strontium	198	21.1	1.93	10.5	
Silicon	1500	70.3	18.5	10.5	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM370	**15-06-0567-7-BB**	**06/05/15 13:51**	**Solid**	**ICP 7300**	**06/11/15**	**06/24/15 17:52**	**150611L09A**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	339000	86.8	6.60	10.2	
Magnesium	4920	86.8	2.94	10.2	
Potassium	1860	434	30.5	10.2	
Sodium	ND	434	31.5	10.2	
Strontium	293	26.0	2.39	10.2	
Silicon	1860	86.8	22.9	10.2	

FDHSM370	**15-06-0567-8-BB**	**06/05/15 13:51**	**Solid**	**ICP 7300**	**06/11/15**	**06/24/15 17:55**	**150611L09A**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	312000	89.8	6.84	9.76	
Magnesium	5780	89.8	3.04	9.76	
Potassium	2230	449	31.5	9.76	
Sodium	ND	449	32.6	9.76	
Strontium	286	27.0	2.47	9.76	
Silicon	2050	89.8	23.7	9.76	

Method Blank	**097-01-002-21301**	**N/A**	**Solid**	**ICP 7300**	**06/11/15**	**06/24/15 17:08**	**150611L09A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	ND	4.98	0.379	0.995	
Magnesium	ND	4.98	0.168	0.995	
Potassium	ND	24.9	1.75	0.995	
Sodium	ND	24.9	1.81	0.995	
Strontium	ND	1.49	0.137	0.995	
Silicon	ND	4.98	1.31	0.995	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB01	**15-06-0567-10-F**	**06/05/15 15:41**	**Aqueous**	**ICP 7300**	**06/15/15**	**06/23/15 15:03**	**150615LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	0.0548	0.100	0.0118	1.00	J
Magnesium	0.0451	0.100	0.00336	1.00	B,J
Potassium	ND	0.500	0.103	1.00	
Sodium	0.150	0.500	0.103	1.00	J
Strontium	ND	0.0300	0.00277	1.00	
Silicon	ND	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-683-1299**	**N/A**	**Aqueous**	**ICP 7300**	**06/15/15**	**06/16/15 11:27**	**150615LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	ND	0.100	0.0118	1.00	
Magnesium	0.0372	0.100	0.00336	1.00	J
Potassium	ND	0.500	0.103	1.00	
Sodium	ND	0.500	0.103	1.00	
Strontium	ND	0.0300	0.00277	1.00	
Silicon	ND	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM310	**15-06-0567-1-BB**	**06/05/15 10:03**	**Solid**	**ICP/MS 03**	**06/12/15**	**06/12/15 18:19**	**150612L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	6.97	0.454	1.00	
Arsenic	7.22	3.48	1.36	1.00	
Barium	70.1	3.48	0.390	1.00	
Beryllium	0.823	3.48	0.716	1.00	J
Cadmium	0.640	3.48	0.418	1.00	J
Chromium	23.4	6.97	0.407	1.00	
Copper	13.5	3.48	0.405	1.00	
Lead	21.6	3.48	0.478	1.00	
Nickel	15.8	3.48	0.446	1.00	
Selenium	2.15	3.48	0.920	1.00	J
Silver	0.506	3.48	0.495	1.00	J
Thallium	ND	3.48	0.366	1.00	
Zinc	95.1	17.4	2.76	1.00	
Aluminum	9790	87.1	11.3	1.00	
Iron	16300	87.1	14.3	1.00	
Manganese	401	8.71	0.455	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM320	**15-06-0567-2-BB**	**06/05/15 10:48**	**Solid**	**ICP/MS 03**	**06/12/15**	**06/12/15 18:22**	**150612L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	10.2	0.665	1.00	
Arsenic	7.16	5.10	1.99	1.00	
Barium	87.3	5.10	0.571	1.00	
Beryllium	1.16	5.10	1.05	1.00	J
Cadmium	1.17	5.10	0.612	1.00	J
Chromium	26.6	10.2	0.596	1.00	
Copper	58.3	5.10	0.594	1.00	
Lead	65.4	5.10	0.699	1.00	
Nickel	20.5	5.10	0.653	1.00	
Selenium	4.20	5.10	1.35	1.00	J
Silver	0.822	5.10	0.725	1.00	J
Thallium	ND	5.10	0.535	1.00	
Zinc	253	25.5	4.05	1.00	
Aluminum	12400	128	16.6	1.00	
Iron	24500	128	20.9	1.00	
Manganese	390	12.8	0.666	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM330	**15-06-0567-3-BB**	**06/05/15 11:03**	**Solid**	**ICP/MS 03**	**06/12/15**	**06/12/15 18:26**	**150612L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	2.52	0.164	1.00	
Arsenic	5.99	1.26	0.490	1.00	
Barium	38.4	1.26	0.141	1.00	
Beryllium	ND	1.26	0.258	1.00	
Cadmium	0.292	1.26	0.151	1.00	J
Chromium	8.38	2.52	0.147	1.00	
Copper	3.84	1.26	0.146	1.00	
Lead	16.0	1.26	0.172	1.00	
Nickel	10.8	1.26	0.161	1.00	
Selenium	ND	1.26	0.332	1.00	
Silver	ND	1.26	0.179	1.00	
Thallium	ND	1.26	0.132	1.00	
Zinc	60.7	6.29	0.998	1.00	
Aluminum	1200	31.4	4.08	1.00	
Iron	9350	31.4	5.15	1.00	
Manganese	334	3.14	0.164	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM340	**15-06-0567-4-BB**	**06/05/15 11:21**	**Solid**	**ICP/MS 03**	**06/12/15**	**06/12/15 18:29**	**150612L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.225	2.49	0.163	1.00	J
Arsenic	2.98	1.25	0.485	1.00	
Barium	31.0	1.25	0.139	1.00	
Beryllium	ND	1.25	0.256	1.00	
Cadmium	0.441	1.25	0.150	1.00	J
Chromium	17.0	2.49	0.146	1.00	
Copper	13.6	1.25	0.145	1.00	
Lead	63.5	1.25	0.171	1.00	
Nickel	9.60	1.25	0.160	1.00	
Selenium	ND	1.25	0.329	1.00	
Silver	0.221	1.25	0.177	1.00	J
Thallium	ND	1.25	0.131	1.00	
Zinc	61.2	6.23	0.989	1.00	
Aluminum	2840	31.2	4.05	1.00	
Iron	7640	31.2	5.10	1.00	
Manganese	152	3.12	0.163	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM350	**15-06-0567-5-BB**	**06/05/15 12:24**	**Solid**	**ICP/MS 03**	**06/12/15**	**06/12/15 18:33**	**150612L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	4.36	0.284	1.00	
Arsenic	5.69	2.18	0.848	1.00	
Barium	45.4	2.18	0.244	1.00	
Beryllium	0.469	2.18	0.447	1.00	J
Cadmium	0.596	2.18	0.261	1.00	J
Chromium	15.3	4.36	0.254	1.00	
Copper	17.8	2.18	0.254	1.00	
Lead	35.5	2.18	0.299	1.00	
Nickel	14.5	2.18	0.279	1.00	
Selenium	1.18	2.18	0.575	1.00	J
Silver	0.384	2.18	0.310	1.00	J
Thallium	ND	2.18	0.229	1.00	
Zinc	84.6	10.9	1.73	1.00	
Aluminum	4890	54.5	7.07	1.00	
Iron	12100	54.5	8.91	1.00	
Manganese	343	5.45	0.284	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM360	**15-06-0567-6-BB**	**06/05/15 13:13**	**Solid**	**ICP/MS 03**	**06/12/15**	**06/12/15 18:36**	**150612L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	2.68	0.175	1.00	
Arsenic	4.11	1.34	0.523	1.00	
Barium	34.7	1.34	0.150	1.00	
Beryllium	0.343	1.34	0.276	1.00	J
Cadmium	0.427	1.34	0.161	1.00	J
Chromium	10.0	2.68	0.157	1.00	
Copper	5.74	1.34	0.156	1.00	
Lead	54.4	1.34	0.184	1.00	
Nickel	9.41	1.34	0.172	1.00	
Selenium	0.386	1.34	0.354	1.00	J
Silver	0.259	1.34	0.191	1.00	J
Thallium	ND	1.34	0.141	1.00	
Zinc	33.0	6.71	1.06	1.00	
Aluminum	4930	33.6	4.36	1.00	
Iron	9170	33.6	5.49	1.00	
Manganese	240	3.36	0.175	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM370	**15-06-0567-7-BB**	**06/05/15 13:51**	**Solid**	**ICP/MS 03**	**06/12/15**	**06/12/15 18:40**	**150612L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	3.42	0.223	1.00	
Arsenic	11.0	1.71	0.665	1.00	
Barium	42.7	1.71	0.191	1.00	
Beryllium	0.436	1.71	0.351	1.00	J
Cadmium	0.612	1.71	0.205	1.00	J
Chromium	11.6	3.42	0.200	1.00	
Copper	8.30	1.71	0.199	1.00	
Lead	17.9	1.71	0.234	1.00	
Nickel	18.0	1.71	0.219	1.00	
Selenium	ND	1.71	0.451	1.00	
Silver	0.282	1.71	0.243	1.00	J
Thallium	ND	1.71	0.179	1.00	
Zinc	42.6	8.55	1.36	1.00	
Aluminum	5760	42.7	5.55	1.00	
Iron	15300	42.7	6.99	1.00	
Manganese	439	4.27	0.223	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM370	**15-06-0567-8-BB**	**06/05/15 13:51**	**Solid**	**ICP/MS 03**	**06/12/15**	**06/15/15 12:49**	**150612L01**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	3.68	0.240	1.00	
Arsenic	8.30	1.84	0.717	1.00	
Barium	55.7	1.84	0.206	1.00	
Beryllium	0.540	1.84	0.378	1.00	J
Cadmium	0.560	1.84	0.221	1.00	J
Chromium	14.0	3.68	0.215	1.00	
Copper	8.41	1.84	0.214	1.00	
Lead	19.6	1.84	0.252	1.00	
Nickel	14.9	1.84	0.236	1.00	
Selenium	0.670	1.84	0.486	1.00	J
Silver	ND	1.84	0.262	1.00	
Thallium	ND	1.84	0.193	1.00	
Zinc	43.5	9.21	1.46	1.00	
Aluminum	8180	46.0	5.98	1.00	
Iron	13800	46.0	7.54	1.00	
Manganese	471	4.60	0.240	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-955**	**N/A**	**Solid**	**ICP/MS 03**	**06/12/15**	**06/12/15 17:25**	**150612L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	2.00	0.130	1.00	
Arsenic	ND	1.00	0.389	1.00	
Barium	ND	1.00	0.112	1.00	
Beryllium	ND	1.00	0.205	1.00	
Cadmium	ND	1.00	0.120	1.00	
Chromium	ND	2.00	0.117	1.00	
Copper	ND	1.00	0.116	1.00	
Lead	ND	1.00	0.137	1.00	
Nickel	ND	1.00	0.128	1.00	
Selenium	ND	1.00	0.264	1.00	
Silver	ND	1.00	0.142	1.00	
Thallium	ND	1.00	0.105	1.00	
Zinc	ND	5.00	0.793	1.00	
Aluminum	ND	25.0	3.25	1.00	
Iron	ND	25.0	4.09	1.00	
Manganese	ND	2.50	0.131	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB01	**15-06-0567-10-F**	**06/05/15 15:41**	**Aqueous**	**ICP/MS 04**	**06/08/15**	**06/09/15 18:50**	**150608LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	ND	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00104	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.000299	0.00100	0.000132	1.00	J
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.000853	0.00500	0.000479	1.00	J
Aluminum	ND	0.0500	0.00331	1.00	
Iron	ND	0.0500	0.00926	1.00	
Manganese	0.000158	0.00100	0.000139	1.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-693-842**	**N/A**	**Aqueous**	**ICP/MS 04**	**06/08/15**	**06/09/15 16:59**	**150608LA2F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	ND	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	ND	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	ND	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	ND	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	ND	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB01	**15-06-0567-10-F**	**06/05/15 15:41**	**Aqueous**	**Mercury 04**	**06/08/15**	**06/08/15 19:07**	**150608L01F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-763-567**	**N/A**	**Aqueous**	**Mercury 04**	**06/08/15**	**06/08/15 13:54**	**150608L01F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM310	**15-06-0567-1-BB**	**06/05/15 10:03**	**Solid**	**Mercury 05**	**06/17/15**	**06/17/15 20:27**	**150617L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0574	0.277	0.0195	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM320	**15-06-0567-2-BB**	**06/05/15 10:48**	**Solid**	**Mercury 05**	**06/17/15**	**06/17/15 20:30**	**150617L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0735	0.418	0.0295	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM330	**15-06-0567-3-BB**	**06/05/15 11:03**	**Solid**	**Mercury 05**	**06/17/15**	**06/17/15 20:32**	**150617L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0996	0.103	0.00726	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM340	**15-06-0567-4-BB**	**06/05/15 11:21**	**Solid**	**Mercury 05**	**06/17/15**	**06/17/15 20:38**	**150617L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0215	0.0990	0.00697	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM350	**15-06-0567-5-BB**	**06/05/15 12:24**	**Solid**	**Mercury 05**	**06/17/15**	**06/17/15 20:41**	**150617L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0558	0.179	0.0126	1.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM360	**15-06-0567-6-BB**	**06/05/15 13:13**	**Solid**	**Mercury 05**	**06/17/15**	**06/17/15 20:43**	**150617L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0173	0.116	0.00815	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM370	**15-06-0567-7-BB**	**06/05/15 13:51**	**Solid**	**Mercury 05**	**06/17/15**	**06/17/15 20:45**	**150617L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0166	0.145	0.0102	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM370	**15-06-0567-8-BB**	**06/05/15 13:51**	**Solid**	**Mercury 05**	**06/17/15**	**06/17/15 20:47**	**150617L03**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0268	0.151	0.0106	1.00	J

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-1355**	**N/A**	**Solid**	**Mercury 05**	**06/17/15**	**06/17/15 20:03**	**150617L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.0833	0.00587	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM310	**15-06-0567-1-B**	**06/05/15 10:03**	**Solid**	**GC 41**	**06/10/15**	**06/17/15 14:02**	**150610L17**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	17	7.6	1.00	
Alpha-BHC	ND	34	13	1.00	
Beta-BHC	ND	17	8.6	1.00	
Chlordane	ND	170	90	1.00	
4,4'-DDD	ND	17	8.2	1.00	
4,4'-DDE	ND	17	7.7	1.00	
4,4'-DDT	ND	17	7.5	1.00	
Delta-BHC	ND	34	15	1.00	
Dieldrin	ND	17	7.6	1.00	
Endosulfan I	ND	17	6.8	1.00	
Endosulfan II	ND	17	8.1	1.00	
Endosulfan Sulfate	ND	17	9.0	1.00	
Endrin	ND	17	8.1	1.00	
Endrin Aldehyde	ND	17	10	1.00	
Endrin Ketone	ND	17	8.7	1.00	
Gamma-BHC	ND	17	7.7	1.00	
Heptachlor	ND	17	7.5	1.00	
Heptachlor Epoxide	ND	34	13	1.00	
Methoxychlor	ND	17	9.4	1.00	
Toxaphene	ND	340	150	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	149	24-168	
2,4,5,6-Tetrachloro-m-Xylene	97	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM320	**15-06-0567-2-B**	**06/05/15 10:48**	**Solid**	**GC 41**	**06/10/15**	**06/17/15 14:17**	**150610L17**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	25	11	1.00	
Alpha-BHC	ND	51	19	1.00	
Beta-BHC	ND	25	13	1.00	
Chlordane	ND	250	130	1.00	
4,4'-DDD	ND	25	12	1.00	
4,4'-DDE	17	25	11	1.00	J
4,4'-DDT	ND	25	11	1.00	
Delta-BHC	ND	51	22	1.00	
Dieldrin	ND	25	11	1.00	
Endosulfan I	ND	25	10	1.00	
Endosulfan II	ND	25	12	1.00	
Endosulfan Sulfate	ND	25	13	1.00	
Endrin	ND	25	12	1.00	
Endrin Aldehyde	ND	25	15	1.00	
Endrin Ketone	ND	25	13	1.00	
Gamma-BHC	ND	25	11	1.00	
Heptachlor	ND	25	11	1.00	
Heptachlor Epoxide	ND	51	19	1.00	
Methoxychlor	ND	25	14	1.00	
Toxaphene	ND	510	230	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	106	24-168	
2,4,5,6-Tetrachloro-m-Xylene	96	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM330	**15-06-0567-3-B**	**06/05/15 11:03**	**Solid**	**GC 41**	**06/10/15**	**06/17/15 14:33**	**150610L17**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	6.3	2.7	1.00	
Alpha-BHC	ND	13	4.6	1.00	
Beta-BHC	ND	6.3	3.1	1.00	
Chlordane	ND	63	33	1.00	
4,4'-DDD	ND	6.3	3.0	1.00	
4,4'-DDE	ND	6.3	2.8	1.00	
4,4'-DDT	ND	6.3	2.7	1.00	
Delta-BHC	ND	13	5.5	1.00	
Dieldrin	ND	6.3	2.7	1.00	
Endosulfan I	ND	6.3	2.5	1.00	
Endosulfan II	ND	6.3	2.9	1.00	
Endosulfan Sulfate	ND	6.3	3.3	1.00	
Endrin	ND	6.3	2.9	1.00	
Endrin Aldehyde	ND	6.3	3.8	1.00	
Endrin Ketone	ND	6.3	3.1	1.00	
Gamma-BHC	ND	6.3	2.8	1.00	
Heptachlor	ND	6.3	2.7	1.00	
Heptachlor Epoxide	ND	13	4.6	1.00	
Methoxychlor	ND	6.3	3.4	1.00	
Toxaphene	ND	130	56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	101	24-168	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM340	**15-06-0567-4-B**	**06/05/15 11:21**	**Solid**	**GC 41**	**06/10/15**	**06/17/15 14:48**	**150610L17**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	6.2	2.7	1.00	
Alpha-BHC	ND	12	4.6	1.00	
Beta-BHC	ND	6.2	3.1	1.00	
Chlordane	ND	62	32	1.00	
4,4'-DDD	ND	6.2	2.9	1.00	
4,4'-DDE	9.2	6.2	2.7	1.00	
4,4'-DDT	ND	6.2	2.7	1.00	
Delta-BHC	ND	12	5.4	1.00	
Dieldrin	ND	6.2	2.7	1.00	
Endosulfan I	ND	6.2	2.4	1.00	
Endosulfan II	ND	6.2	2.9	1.00	
Endosulfan Sulfate	ND	6.2	3.2	1.00	
Endrin	ND	6.2	2.9	1.00	
Endrin Aldehyde	ND	6.2	3.7	1.00	
Endrin Ketone	ND	6.2	3.1	1.00	
Gamma-BHC	ND	6.2	2.8	1.00	
Heptachlor	ND	6.2	2.7	1.00	
Heptachlor Epoxide	ND	12	4.6	1.00	
Methoxychlor	ND	6.2	3.4	1.00	
Toxaphene	ND	120	55	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	130	24-168	
2,4,5,6-Tetrachloro-m-Xylene	89	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM350	**15-06-0567-5-B**	**06/05/15 12:24**	**Solid**	**GC 41**	**06/10/15**	**06/17/15 15:03**	**150610L17**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	11	4.7	1.00	
Alpha-BHC	ND	22	8.0	1.00	
Beta-BHC	ND	11	5.4	1.00	
Chlordane	ND	110	56	1.00	
4,4'-DDD	ND	11	5.1	1.00	
4,4'-DDE	ND	11	4.8	1.00	
4,4'-DDT	ND	11	4.7	1.00	
Delta-BHC	ND	22	9.5	1.00	
Dieldrin	ND	11	4.7	1.00	
Endosulfan I	ND	11	4.3	1.00	
Endosulfan II	ND	11	5.1	1.00	
Endosulfan Sulfate	ND	11	5.6	1.00	
Endrin	ND	11	5.1	1.00	
Endrin Aldehyde	ND	11	6.5	1.00	
Endrin Ketone	ND	11	5.4	1.00	
Gamma-BHC	ND	11	4.8	1.00	
Heptachlor	ND	11	4.7	1.00	
Heptachlor Epoxide	ND	22	8.0	1.00	
Methoxychlor	ND	11	5.9	1.00	
Toxaphene	ND	220	97	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	197	24-168	2,7
2,4,5,6-Tetrachloro-m-Xylene	97	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM360	**15-06-0567-6-B**	**06/05/15 13:13**	**Solid**	**GC 41**	**06/10/15**	**06/17/15 15:18**	**150610L17**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	6.7	2.9	1.00	
Alpha-BHC	ND	13	5.0	1.00	
Beta-BHC	ND	6.7	3.3	1.00	
Chlordane	ND	67	35	1.00	
4,4'-DDD	ND	6.7	3.2	1.00	
4,4'-DDE	ND	6.7	3.0	1.00	
4,4'-DDT	ND	6.7	2.9	1.00	
Delta-BHC	ND	13	5.9	1.00	
Dieldrin	ND	6.7	2.9	1.00	
Endosulfan I	ND	6.7	2.7	1.00	
Endosulfan II	ND	6.7	3.2	1.00	
Endosulfan Sulfate	ND	6.7	3.5	1.00	
Endrin	ND	6.7	3.2	1.00	
Endrin Aldehyde	ND	6.7	4.1	1.00	
Endrin Ketone	ND	6.7	3.4	1.00	
Gamma-BHC	ND	6.7	3.0	1.00	
Heptachlor	ND	6.7	2.9	1.00	
Heptachlor Epoxide	ND	13	5.0	1.00	
Methoxychlor	ND	6.7	3.6	1.00	
Toxaphene	ND	130	60	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	24-168	
2,4,5,6-Tetrachloro-m-Xylene	94	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM370	**15-06-0567-7-B**	**06/05/15 13:51**	**Solid**	**GC 41**	**06/10/15**	**06/17/15 15:34**	**150610L17**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	8.5	3.7	1.00	
Alpha-BHC	ND	17	6.3	1.00	
Beta-BHC	ND	8.5	4.2	1.00	
Chlordane	ND	85	44	1.00	
4,4'-DDD	ND	8.5	4.0	1.00	
4,4'-DDE	ND	8.5	3.8	1.00	
4,4'-DDT	ND	8.5	3.7	1.00	
Delta-BHC	ND	17	7.5	1.00	
Dieldrin	ND	8.5	3.7	1.00	
Endosulfan I	ND	8.5	3.4	1.00	
Endosulfan II	ND	8.5	4.0	1.00	
Endosulfan Sulfate	ND	8.5	4.4	1.00	
Endrin	ND	8.5	4.0	1.00	
Endrin Aldehyde	ND	8.5	5.1	1.00	
Endrin Ketone	ND	8.5	4.3	1.00	
Gamma-BHC	ND	8.5	3.8	1.00	
Heptachlor	ND	8.5	3.7	1.00	
Heptachlor Epoxide	ND	17	6.3	1.00	
Methoxychlor	ND	8.5	4.6	1.00	
Toxaphene	ND	170	76	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	24-168	
2,4,5,6-Tetrachloro-m-Xylene	102	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM370	**15-06-0567-8-B**	**06/05/15 13:51**	**Solid**	**GC 41**	**06/10/15**	**06/17/15 15:49**	**150610L17**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	9.2	4.0	1.00	
Alpha-BHC	ND	18	6.8	1.00	
Beta-BHC	ND	9.2	4.6	1.00	
Chlordane	ND	92	48	1.00	
4,4'-DDD	ND	9.2	4.4	1.00	
4,4'-DDE	ND	9.2	4.1	1.00	
4,4'-DDT	ND	9.2	4.0	1.00	
Delta-BHC	ND	18	8.1	1.00	
Dieldrin	ND	9.2	4.0	1.00	
Endosulfan I	ND	9.2	3.7	1.00	
Endosulfan II	ND	9.2	4.3	1.00	
Endosulfan Sulfate	ND	9.2	4.8	1.00	
Endrin	ND	9.2	4.3	1.00	
Endrin Aldehyde	ND	9.2	5.6	1.00	
Endrin Ketone	ND	9.2	4.6	1.00	
Gamma-BHC	ND	9.2	4.1	1.00	
Heptachlor	ND	9.2	4.0	1.00	
Heptachlor Epoxide	ND	18	6.8	1.00	
Methoxychlor	ND	9.2	5.0	1.00	
Toxaphene	ND	180	83	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	24-168	
2,4,5,6-Tetrachloro-m-Xylene	94	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-2135**	**N/A**	**Solid**	**GC 41**	**06/10/15**	**06/11/15 18:47**	**150610L17**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	5.0	2.2	1.00	
Alpha-BHC	ND	10	3.7	1.00	
Beta-BHC	ND	5.0	2.5	1.00	
Chlordane	ND	50	26	1.00	
4,4'-DDD	ND	5.0	2.4	1.00	
4,4'-DDE	ND	5.0	2.2	1.00	
4,4'-DDT	ND	5.0	2.2	1.00	
Delta-BHC	ND	10	4.4	1.00	
Dieldrin	ND	5.0	2.2	1.00	
Endosulfan I	ND	5.0	2.0	1.00	
Endosulfan II	ND	5.0	2.4	1.00	
Endosulfan Sulfate	ND	5.0	2.6	1.00	
Endrin	ND	5.0	2.4	1.00	
Endrin Aldehyde	ND	5.0	3.0	1.00	
Endrin Ketone	ND	5.0	2.5	1.00	
Gamma-BHC	ND	5.0	2.2	1.00	
Heptachlor	ND	5.0	2.2	1.00	
Heptachlor Epoxide	ND	10	3.7	1.00	
Methoxychlor	ND	5.0	2.7	1.00	
Toxaphene	ND	100	45	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	107	24-168	
2,4,5,6-Tetrachloro-m-Xylene	79	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB01	**15-06-0567-10-I**	**06/05/15 15:41**	**Aqueous**	**GC 44**	**06/08/15**	**06/10/15 15:08**	**150608L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	50-135	
2,4,5,6-Tetrachloro-m-Xylene	111	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-529-813**	**N/A**	**Aqueous**	**GC 44**	**06/08/15**	**06/10/15 14:26**	**150608L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	50-135	
2,4,5,6-Tetrachloro-m-Xylene	111	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM310	**15-06-0567-1-B**	**06/05/15 10:03**	**Solid**	**GC 58**	**06/10/15**	**06/13/15 11:49**	**150610L18**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	170	72	1.00	
Aroclor-1221	ND	170	150	1.00	
Aroclor-1232	ND	170	87	1.00	
Aroclor-1242	ND	170	130	1.00	
Aroclor-1248	ND	170	110	1.00	
Aroclor-1254	ND	170	110	1.00	
Aroclor-1260	ND	170	100	1.00	
Aroclor-1262	ND	170	120	1.00	
Aroclor-1268	ND	170	120	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	141	24-168	
2,4,5,6-Tetrachloro-m-Xylene	112	25-145	

HSM320	15-06-0567-2-B	06/05/15 10:48	Solid	GC 58	06/10/15	06/13/15 14:36	150610L18

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	250	110	1.00	
Aroclor-1221	ND	250	210	1.00	
Aroclor-1232	ND	250	130	1.00	
Aroclor-1242	ND	250	190	1.00	
Aroclor-1248	ND	250	160	1.00	
Aroclor-1254	ND	250	160	1.00	
Aroclor-1260	ND	250	150	1.00	
Aroclor-1262	ND	250	180	1.00	
Aroclor-1268	ND	250	170	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	122	24-168	
2,4,5,6-Tetrachloro-m-Xylene	105	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM330	**15-06-0567-3-B**	**06/05/15 11:03**	**Solid**	**GC 58**	**06/10/15**	**06/13/15 12:25**	**150610L18**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	63	26	1.00	
Aroclor-1221	ND	63	53	1.00	
Aroclor-1232	ND	63	31	1.00	
Aroclor-1242	ND	63	46	1.00	
Aroclor-1248	ND	63	40	1.00	
Aroclor-1254	ND	63	40	1.00	
Aroclor-1260	ND	63	38	1.00	
Aroclor-1262	ND	63	43	1.00	
Aroclor-1268	ND	63	42	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	24-168	
2,4,5,6-Tetrachloro-m-Xylene	85	25-145	

HSM340	15-06-0567-4-B	06/05/15 11:21	Solid	GC 58	06/10/15	06/13/15 12:43	150610L18

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	62	26	1.00	
Aroclor-1221	ND	62	52	1.00	
Aroclor-1232	ND	62	31	1.00	
Aroclor-1242	ND	62	46	1.00	
Aroclor-1248	ND	62	39	1.00	
Aroclor-1254	41	62	39	1.00	J
Aroclor-1260	52	62	38	1.00	J
Aroclor-1262	ND	62	43	1.00	
Aroclor-1268	ND	62	41	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	136	24-168	
2,4,5,6-Tetrachloro-m-Xylene	100	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM350	**15-06-0567-5-B**	**06/05/15 12:24**	**Solid**	**GC 58**	**06/10/15**	**06/13/15 13:01**	**150610L18**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	110	45	1.00	
Aroclor-1221	ND	110	91	1.00	
Aroclor-1232	ND	110	54	1.00	
Aroclor-1242	ND	110	80	1.00	
Aroclor-1248	ND	110	69	1.00	
Aroclor-1254	ND	110	68	1.00	
Aroclor-1260	ND	110	66	1.00	
Aroclor-1262	ND	110	75	1.00	
Aroclor-1268	ND	110	72	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	136	24-168	
2,4,5,6-Tetrachloro-m-Xylene	121	25-145	

HSM360	15-06-0567-6-B	06/05/15 13:13	Solid	GC 58	06/10/15	06/13/15 13:23	150610L18

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	67	28	1.00	
Aroclor-1221	ND	67	57	1.00	
Aroclor-1232	ND	67	34	1.00	
Aroclor-1242	ND	67	50	1.00	
Aroclor-1248	ND	67	43	1.00	
Aroclor-1254	ND	67	43	1.00	
Aroclor-1260	ND	67	41	1.00	
Aroclor-1262	ND	67	47	1.00	
Aroclor-1268	ND	67	45	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	134	24-168	
2,4,5,6-Tetrachloro-m-Xylene	105	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM370	**15-06-0567-7-B**	**06/05/15 13:51**	**Solid**	**GC 58**	**06/10/15**	**06/13/15 13:41**	**150610L18**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	85	35	1.00	
Aroclor-1221	ND	85	72	1.00	
Aroclor-1232	ND	85	43	1.00	
Aroclor-1242	ND	85	63	1.00	
Aroclor-1248	ND	85	54	1.00	
Aroclor-1254	ND	85	54	1.00	
Aroclor-1260	ND	85	52	1.00	
Aroclor-1262	ND	85	59	1.00	
Aroclor-1268	ND	85	57	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	136	24-168	
2,4,5,6-Tetrachloro-m-Xylene	116	25-145	

FDHSM370	15-06-0567-8-B	06/05/15 13:51	Solid	GC 58	06/10/15	06/13/15 13:59	150610L18

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	92	38	1.00	
Aroclor-1221	ND	92	78	1.00	
Aroclor-1232	ND	92	46	1.00	
Aroclor-1242	ND	92	68	1.00	
Aroclor-1248	ND	92	59	1.00	
Aroclor-1254	ND	92	58	1.00	
Aroclor-1260	ND	92	56	1.00	
Aroclor-1262	ND	92	64	1.00	
Aroclor-1268	ND	92	62	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	130	24-168	
2,4,5,6-Tetrachloro-m-Xylene	103	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-535-3266**	**N/A**	**Solid**	**GC 58**	**06/10/15**	**06/11/15 22:22**	**150610L18**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	150	24-168	
2,4,5,6-Tetrachloro-m-Xylene	117	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB01	**15-06-0567-10-I**	**06/05/15 15:41**	**Aqueous**	**GC 31**	**06/08/15**	**06/09/15 19:39**	**150608L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	107	50-135	
2,4,5,6-Tetrachloro-m-Xylene	111	50-135	

Method Blank	099-12-533-1050	N/A	Aqueous	GC 31	06/08/15	06/09/15 19:20	150608L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	107	50-135	
2,4,5,6-Tetrachloro-m-Xylene	108	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB01	**15-06-0567-10-I**	**06/05/15 15:41**	**Aqueous**	**GC 26**	**06/08/15**	**06/10/15 15:05**	**150608L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	103	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-963-97**	**N/A**	**Aqueous**	**GC 26**	**06/08/15**	**06/10/15 12:08**	**150608L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	97	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM310	**15-06-0567-1-B**	**06/05/15 10:03**	**Solid**	**GC 26**	**06/09/15**	**06/15/15 10:41**	**150609L20**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Demeton-o/s	ND	1.7	0.98	1.00	
Azinphos Methyl	ND	1.7	0.78	1.00	
Bolstar	ND	1.7	0.61	1.00	
Chlorpyrifos	ND	1.7	0.57	1.00	
Coumaphos	ND	1.7	0.52	1.00	
Diazinon	ND	1.7	0.55	1.00	
Dichlorvos	ND	1.7	0.95	1.00	
Disulfoton	ND	1.7	0.53	1.00	
Ethoprop	ND	1.7	0.57	1.00	
Fensulfothion	ND	1.7	0.62	1.00	
Fenthion	ND	1.7	0.64	1.00	
Merphos	ND	1.7	0.66	1.00	
Methyl Parathion	ND	1.7	0.73	1.00	
Mevinphos	ND	1.7	0.83	1.00	
Naled	ND	14	6.0	1.00	
Phorate	ND	1.7	0.78	1.00	
Ronnel	ND	1.7	0.54	1.00	
Stirophos	ND	6.9	2.1	1.00	
Tokuthion	ND	1.7	0.58	1.00	
Trichloronate	ND	1.7	0.52	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	91	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM320	**15-06-0567-2-B**	**06/05/15 10:48**	**Solid**	**GC 26**	**06/09/15**	**06/15/15 11:25**	**150609L20**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Demeton-o/s	ND	2.5	1.4	1.00	
Azinphos Methyl	ND	2.5	1.1	1.00	
Bolstar	ND	2.5	0.89	1.00	
Chlorpyrifos	ND	2.5	0.83	1.00	
Coumaphos	ND	2.5	0.75	1.00	
Diazinon	ND	2.5	0.80	1.00	
Dichlorvos	ND	2.5	1.4	1.00	
Disulfoton	ND	2.5	0.76	1.00	
Ethoprop	ND	2.5	0.83	1.00	
Fensulfothion	ND	2.5	0.91	1.00	
Fenthion	ND	2.5	0.93	1.00	
Merphos	ND	2.5	0.96	1.00	
Methyl Parathion	ND	2.5	1.1	1.00	
Mevinphos	ND	2.5	1.2	1.00	
Naled	ND	20	8.6	1.00	
Phorate	ND	2.5	1.1	1.00	
Ronnel	ND	2.5	0.78	1.00	
Stirophos	ND	10	3.0	1.00	
Tokuthion	ND	2.5	0.84	1.00	
Trichloronate	ND	2.5	0.76	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	92	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM330	**15-06-0567-3-B**	**06/05/15 11:03**	**Solid**	**GC 26**	**06/09/15**	**06/15/15 12:09**	**150609L20**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Demeton-o/s	ND	0.61	0.35	1.00	
Azinphos Methyl	ND	0.61	0.28	1.00	
Bolstar	ND	0.61	0.22	1.00	
Chlorpyrifos	ND	0.61	0.20	1.00	
Coumaphos	ND	0.61	0.18	1.00	
Diazinon	ND	0.61	0.20	1.00	
Dichlorvos	ND	0.61	0.34	1.00	
Disulfoton	ND	0.61	0.19	1.00	
Ethoprop	ND	0.61	0.20	1.00	
Fensulfothion	ND	0.61	0.22	1.00	
Fenthion	ND	0.61	0.23	1.00	
Merphos	ND	0.61	0.24	1.00	
Methyl Parathion	ND	0.61	0.26	1.00	
Mevinphos	ND	0.61	0.30	1.00	
Naled	ND	4.9	2.1	1.00	
Phorate	ND	0.61	0.28	1.00	
Ronnel	ND	0.61	0.19	1.00	
Stirophos	ND	2.5	0.73	1.00	
Tokuthion	ND	0.61	0.21	1.00	
Trichloronate	ND	0.61	0.19	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	97	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM340	**15-06-0567-4-B**	**06/05/15 11:21**	**Solid**	**GC 26**	**06/09/15**	**06/15/15 12:53**	**150609L20**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Demeton-o/s	ND	0.62	0.35	1.00	
Azinphos Methyl	ND	0.62	0.28	1.00	
Bolstar	ND	0.62	0.22	1.00	
Chlorpyrifos	ND	0.62	0.21	1.00	
Coumaphos	ND	0.62	0.18	1.00	
Diazinon	ND	0.62	0.20	1.00	
Dichlorvos	ND	0.62	0.34	1.00	
Disulfoton	ND	0.62	0.19	1.00	
Ethoprop	ND	0.62	0.21	1.00	
Fensulfothion	ND	0.62	0.22	1.00	
Fenthion	ND	0.62	0.23	1.00	
Merphos	ND	0.62	0.24	1.00	
Methyl Parathion	ND	0.62	0.26	1.00	
Mevinphos	ND	0.62	0.30	1.00	
Naled	ND	4.9	2.1	1.00	
Phorate	ND	0.62	0.28	1.00	
Ronnel	ND	0.62	0.19	1.00	
Stirophos	ND	2.5	0.74	1.00	
Tokuthion	ND	0.62	0.21	1.00	
Trichloronate	ND	0.62	0.19	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	98	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM350	**15-06-0567-5-B**	**06/05/15 12:24**	**Solid**	**GC 26**	**06/09/15**	**06/15/15 13:38**	**150609L20**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Demeton-o/s	ND	1.1	0.62	1.00	
Azinphos Methyl	ND	1.1	0.49	1.00	
Bolstar	ND	1.1	0.39	1.00	
Chlorpyrifos	ND	1.1	0.36	1.00	
Coumaphos	ND	1.1	0.33	1.00	
Diazinon	ND	1.1	0.35	1.00	
Dichlorvos	ND	1.1	0.60	1.00	
Disulfoton	ND	1.1	0.33	1.00	
Ethoprop	ND	1.1	0.36	1.00	
Fensulfothion	ND	1.1	0.39	1.00	
Fenthion	ND	1.1	0.41	1.00	
Merphos	ND	1.1	0.42	1.00	
Methyl Parathion	ND	1.1	0.46	1.00	
Mevinphos	ND	1.1	0.53	1.00	
Naled	ND	8.7	3.8	1.00	
Phorate	ND	1.1	0.49	1.00	
Ronnel	ND	1.1	0.34	1.00	
Stirophos	ND	4.4	1.3	1.00	
Tokuthion	ND	1.1	0.37	1.00	
Trichloronate	ND	1.1	0.33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	110	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM360	**15-06-0567-6-B**	**06/05/15 13:13**	**Solid**	**GC 26**	**06/09/15**	**06/15/15 14:22**	**150609L20**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Demeton-o/s	ND	0.66	0.38	1.00	
Azinphos Methyl	ND	0.66	0.30	1.00	
Bolstar	ND	0.66	0.23	1.00	
Chlorpyrifos	ND	0.66	0.22	1.00	
Coumaphos	ND	0.66	0.20	1.00	
Diazinon	ND	0.66	0.21	1.00	
Dichlorvos	ND	0.66	0.36	1.00	
Disulfoton	ND	0.66	0.20	1.00	
Ethoprop	ND	0.66	0.22	1.00	
Fensulfothion	ND	0.66	0.24	1.00	
Fenthion	ND	0.66	0.24	1.00	
Merphos	ND	0.66	0.25	1.00	
Methyl Parathion	ND	0.66	0.28	1.00	
Mevinphos	ND	0.66	0.32	1.00	
Naled	ND	5.3	2.3	1.00	
Phorate	ND	0.66	0.30	1.00	
Ronnel	ND	0.66	0.20	1.00	
Stirophos	ND	2.6	0.79	1.00	
Tokuthion	ND	0.66	0.22	1.00	
Trichloronate	ND	0.66	0.20	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	110	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM370	**15-06-0567-7-B**	**06/05/15 13:51**	**Solid**	**GC 26**	**06/09/15**	**06/15/15 15:06**	**150609L20**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Demeton-o/s	ND	0.86	0.49	1.00	
Azinphos Methyl	ND	0.86	0.39	1.00	
Bolstar	ND	0.86	0.30	1.00	
Chlorpyrifos	ND	0.86	0.29	1.00	
Coumaphos	ND	0.86	0.26	1.00	
Diazinon	ND	0.86	0.27	1.00	
Dichlorvos	ND	0.86	0.47	1.00	
Disulfoton	ND	0.86	0.26	1.00	
Ethoprop	ND	0.86	0.29	1.00	
Fensulfothion	ND	0.86	0.31	1.00	
Fenthion	ND	0.86	0.32	1.00	
Merphos	ND	0.86	0.33	1.00	
Methyl Parathion	ND	0.86	0.37	1.00	
Mevinphos	ND	0.86	0.41	1.00	
Naled	ND	6.9	3.0	1.00	
Phorate	ND	0.86	0.39	1.00	
Ronnel	ND	0.86	0.27	1.00	
Stirophos	ND	3.4	1.0	1.00	
Tokuthion	ND	0.86	0.29	1.00	
Trichloronate	ND	0.86	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	101	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM370	**15-06-0567-8-B**	**06/05/15 13:51**	**Solid**	**GC 26**	**06/09/15**	**06/15/15 15:50**	**150609L20**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Demeton-o/s	ND	0.90	0.52	1.00	
Azinphos Methyl	ND	0.90	0.41	1.00	
Bolstar	ND	0.90	0.32	1.00	
Chlorpyrifos	ND	0.90	0.30	1.00	
Coumaphos	ND	0.90	0.27	1.00	
Diazinon	ND	0.90	0.29	1.00	
Dichlorvos	ND	0.90	0.50	1.00	
Disulfoton	ND	0.90	0.28	1.00	
Ethoprop	ND	0.90	0.30	1.00	
Fensulfothion	ND	0.90	0.33	1.00	
Fenthion	ND	0.90	0.34	1.00	
Merphos	ND	0.90	0.35	1.00	
Methyl Parathion	ND	0.90	0.38	1.00	
Mevinphos	ND	0.90	0.44	1.00	
Naled	ND	7.2	3.1	1.00	
Phorate	ND	0.90	0.41	1.00	
Ronnel	ND	0.90	0.28	1.00	
Stirophos	ND	3.6	1.1	1.00	
Tokuthion	ND	0.90	0.30	1.00	
Trichloronate	ND	0.90	0.27	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	106	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8141A
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-973-188**	**N/A**	**Solid**	**GC 26**	**06/09/15**	**06/12/15 11:24**	**150609L20**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Demeton-o/s	ND	0.50	0.29	1.00	
Azinphos Methyl	ND	0.50	0.23	1.00	
Bolstar	ND	0.50	0.18	1.00	
Chlorpyrifos	ND	0.50	0.17	1.00	
Coumaphos	ND	0.50	0.15	1.00	
Diazinon	ND	0.50	0.16	1.00	
Dichlorvos	ND	0.50	0.28	1.00	
Disulfoton	ND	0.50	0.15	1.00	
Ethoprop	ND	0.50	0.17	1.00	
Fensulfothion	ND	0.50	0.18	1.00	
Fenthion	ND	0.50	0.19	1.00	
Merphos	ND	0.50	0.19	1.00	
Methyl Parathion	ND	0.50	0.21	1.00	
Mevinphos	ND	0.50	0.24	1.00	
Naled	ND	4.0	1.7	1.00	
Phorate	ND	0.50	0.22	1.00	
Ronnel	ND	0.50	0.16	1.00	
Stirophos	ND	2.0	0.60	1.00	
Tokuthion	ND	0.50	0.17	1.00	
Trichloronate	ND	0.50	0.15	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	97	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM310	**15-06-0567-1-B**	**06/05/15 10:03**	**Solid**	**GC 40**	**06/10/15**	**06/17/15 13:35**	**150610L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	870	250	1.00	
Dicamba	ND	35	4.3	1.00	
MCPP	ND	35000	11000	1.00	
MCPA	ND	35000	7100	1.00	
Dichlorprop	ND	350	58	1.00	
2,4-D	ND	350	49	1.00	
2,4,5-TP (Silvex)	ND	35	8.1	1.00	
2,4,5-T	ND	35	4.0	1.00	
2,4-DB	ND	350	55	1.00	
Dinoseb	ND	170	18	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	69	30-130	

HSM320	15-06-0567-2-B	06/05/15 10:48	Solid	GC 40	06/10/15	06/17/15 13:59	150610L09

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	1300	370	1.00	
Dicamba	ND	51	6.3	1.00	
MCPP	ND	51000	16000	1.00	
MCPA	ND	51000	10000	1.00	
Dichlorprop	ND	510	85	1.00	
2,4-D	ND	510	73	1.00	
2,4,5-TP (Silvex)	ND	51	12	1.00	
2,4,5-T	ND	51	5.8	1.00	
2,4-DB	ND	510	81	1.00	
Dinoseb	ND	250	26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	66	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM330	**15-06-0567-3-B**	**06/05/15 11:03**	**Solid**	**GC 40**	**06/10/15**	**06/17/15 14:22**	**150610L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	310	92	1.00	
Dicamba	ND	13	1.6	1.00	
MCPP	ND	13000	4000	1.00	
MCPA	ND	13000	2600	1.00	
Dichlorprop	ND	130	21	1.00	
2,4-D	ND	130	18	1.00	
2,4,5-TP (Silvex)	ND	13	3.0	1.00	
2,4,5-T	ND	13	1.4	1.00	
2,4-DB	ND	130	20	1.00	
Dinoseb	ND	63	6.4	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	65	30-130	

HSM340	15-06-0567-4-B	06/05/15 11:21	Solid	GC 40	06/10/15	06/17/15 14:45	150610L09

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	310	90	1.00	
Dicamba	ND	12	1.5	1.00	
MCPP	ND	12000	3900	1.00	
MCPA	ND	12000	2500	1.00	
Dichlorprop	ND	120	21	1.00	
2,4-D	ND	120	18	1.00	
2,4,5-TP (Silvex)	ND	12	2.9	1.00	
2,4,5-T	ND	12	1.4	1.00	
2,4-DB	ND	120	20	1.00	
Dinoseb	ND	62	6.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	70	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM350	**15-06-0567-5-B**	**06/05/15 12:24**	**Solid**	**GC 40**	**06/10/15**	**06/17/15 15:08**	**150610L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	550	160	1.00	
Dicamba	ND	22	2.7	1.00	
MCPP	ND	22000	6900	1.00	
MCPA	ND	22000	4500	1.00	
Dichlorprop	ND	220	36	1.00	
2,4-D	ND	220	31	1.00	
2,4,5-TP (Silvex)	ND	22	5.1	1.00	
2,4,5-T	ND	22	2.5	1.00	
2,4-DB	ND	220	35	1.00	
Dinoseb	ND	110	11	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	72	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM360	**15-06-0567-6-B**	**06/05/15 13:13**	**Solid**	**GC 40**	**06/10/15**	**06/17/15 15:31**	**150610L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	330	97	1.00	
Dicamba	ND	13	1.7	1.00	
MCPP	ND	13000	4200	1.00	
MCPA	ND	13000	2700	1.00	
Dichlorprop	ND	130	22	1.00	
2,4-D	ND	130	19	1.00	
2,4,5-TP (Silvex)	ND	13	3.1	1.00	
2,4,5-T	ND	13	1.5	1.00	
2,4-DB	ND	130	21	1.00	
Dinoseb	ND	67	6.8	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	60	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM370	**15-06-0567-7-B**	**06/05/15 13:51**	**Solid**	**GC 40**	**06/10/15**	**06/17/15 15:55**	**150610L09**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	430	120	1.00	
Dicamba	ND	17	2.1	1.00	
MCPP	ND	17000	5400	1.00	
MCPA	ND	17000	3500	1.00	
Dichlorprop	ND	170	28	1.00	
2,4-D	ND	170	24	1.00	
2,4,5-TP (Silvex)	ND	17	4.0	1.00	
2,4,5-T	ND	17	1.9	1.00	
2,4-DB	ND	170	27	1.00	
Dinoseb	ND	85	8.6	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	84	30-130	

FDHSM370	15-06-0567-8-B	06/05/15 13:51	Solid	GC 40	06/10/15	06/17/15 16:18	150610L09

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	460	130	1.00	
Dicamba	ND	18	2.3	1.00	
MCPP	ND	18000	5800	1.00	
MCPA	ND	18000	3700	1.00	
Dichlorprop	ND	180	30	1.00	
2,4-D	ND	180	26	1.00	
2,4,5-TP (Silvex)	ND	18	4.3	1.00	
2,4,5-T	ND	18	2.1	1.00	
2,4-DB	ND	180	29	1.00	
Dinoseb	ND	91	9.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	85	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-033-1294**	**N/A**	**Solid**	**GC 40**	**06/10/15**	**06/11/15 19:20**	**150610L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	250	73	1.00	
Dicamba	ND	10	1.2	1.00	
MCPP	ND	10000	3200	1.00	
MCPA	ND	10000	2100	1.00	
Dichlorprop	ND	100	17	1.00	
2,4-D	ND	100	14	1.00	
2,4,5-TP (Silvex)	ND	10	2.3	1.00	
2,4,5-T	ND	10	1.1	1.00	
2,4-DB	ND	100	16	1.00	
Dinoseb	ND	50	5.1	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	67	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB01	**15-06-0567-10-I**	**06/05/15 15:41**	**Aqueous**	**GC 40**	**06/08/15**	**06/16/15 20:19**	**150608L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	73	0-123	

Method Blank	095-01-034-647	N/A	Aqueous	GC 40	06/08/15	06/12/15 04:34	150608L06

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	118	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB01	**15-06-0567-10-H**	**06/05/15 15:41**	**Aqueous**	**GC/MS TT**	**06/08/15**	**06/08/15 22:48**	**150608L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 3 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	73	33-120	
2-Fluorophenol	45	24-120	
Nitrobenzene-d5	79	38-120	
p-Terphenyl-d14	76	41-137	
Phenol-d6	27	16-120	
2,4,6-Tribromophenol	91	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-4051**	**N/A**	**Aqueous**	**GC/MS TT**	**06/08/15**	**06/08/15 16:52**	**150608L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.5	1.00	
Benzo (k) Fluoranthene	ND	10	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.7	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.8	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.5	1.00	
Dibenzofuran	ND	10	2.8	1.00	
1,2-Dichlorobenzene	ND	10	3.0	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	10	2.3	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.1	1.00	
Isophorone	ND	10	2.5	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.8	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.1	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.6	1.00	
Phenanthrene	ND	10	2.9	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.8	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 6 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	77	33-120	
2-Fluorophenol	52	24-120	
Nitrobenzene-d5	81	38-120	
p-Terphenyl-d14	81	41-137	
Phenol-d6	31	16-120	
2,4,6-Tribromophenol	91	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM310	**15-06-0567-1-B**	**06/05/15 10:03**	**Solid**	**GC/MS CCC**	**06/11/15**	**06/12/15 12:55**	**150611L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	1.7	0.22	1.00	
Acenaphthylene	ND	1.7	0.21	1.00	
Aniline	ND	1.7	0.21	1.00	
Anthracene	ND	1.7	0.22	1.00	
Azobenzene	ND	1.7	0.19	1.00	
Benzidine	ND	34	2.8	1.00	
Benzo (a) Anthracene	ND	1.7	0.20	1.00	
Benzo (a) Pyrene	ND	1.7	0.19	1.00	
Benzo (b) Fluoranthene	ND	1.7	0.22	1.00	
Benzo (g,h,i) Perylene	ND	1.7	0.19	1.00	
Benzo (k) Fluoranthene	ND	1.7	0.22	1.00	
Benzoic Acid	ND	8.6	1.7	1.00	
Benzyl Alcohol	ND	1.7	0.23	1.00	
Bis(2-Chloroethoxy) Methane	ND	1.7	0.19	1.00	
Bis(2-Chloroethyl) Ether	ND	8.6	1.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	1.7	0.20	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	1.7	0.18	1.00	
4-Bromophenyl-Phenyl Ether	ND	1.7	0.21	1.00	
Butyl Benzyl Phthalate	ND	1.7	0.19	1.00	
4-Chloro-3-Methylphenol	ND	1.7	0.23	1.00	
4-Chloroaniline	ND	1.7	0.22	1.00	
2-Chloronaphthalene	ND	1.7	0.20	1.00	
2-Chlorophenol	ND	1.7	0.23	1.00	
4-Chlorophenyl-Phenyl Ether	ND	1.7	0.22	1.00	
Chrysene	ND	1.7	0.22	1.00	
Di-n-Butyl Phthalate	ND	1.7	0.21	1.00	
Di-n-Octyl Phthalate	ND	1.7	0.35	1.00	
Dibenz (a,h) Anthracene	ND	1.7	0.16	1.00	
Dibenzofuran	ND	1.7	0.21	1.00	
1,2-Dichlorobenzene	ND	1.7	0.22	1.00	
1,3-Dichlorobenzene	ND	1.7	0.25	1.00	
1,4-Dichlorobenzene	ND	1.7	0.26	1.00	
3,3'-Dichlorobenzidine	ND	34	1.3	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	MDL	DF	Qualifiers
2,4-Dichlorophenol	ND	1.7	0.20	1.00	
Diethyl Phthalate	ND	1.7	0.20	1.00	
Dimethyl Phthalate	ND	1.7	0.39	1.00	
2,4-Dimethylphenol	ND	1.7	0.91	1.00	
4,6-Dinitro-2-Methylphenol	ND	8.6	2.2	1.00	
2,4-Dinitrophenol	ND	8.6	1.2	1.00	
2,4-Dinitrotoluene	ND	1.7	0.23	1.00	
2,6-Dinitrotoluene	ND	1.7	0.25	1.00	
Fluoranthene	ND	1.7	0.21	1.00	
Fluorene	ND	1.7	0.22	1.00	
Hexachloro-1,3-Butadiene	ND	1.7	0.22	1.00	
Hexachlorobenzene	ND	1.7	0.23	1.00	
Hexachlorocyclopentadiene	ND	8.6	1.7	1.00	
Hexachloroethane	ND	1.7	0.27	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	1.7	0.18	1.00	
Isophorone	ND	1.7	0.20	1.00	
2-Methylnaphthalene	ND	1.7	0.21	1.00	
1-Methylnaphthalene	ND	1.7	0.19	1.00	
2-Methylphenol	ND	1.7	0.30	1.00	
3/4-Methylphenol	ND	1.7	0.56	1.00	
N-Nitroso-di-n-propylamine	ND	1.7	0.29	1.00	
N-Nitrosodimethylamine	ND	1.7	0.16	1.00	
N-Nitrosodiphenylamine	ND	1.7	0.47	1.00	
Naphthalene	ND	1.7	0.20	1.00	
4-Nitroaniline	ND	1.7	0.22	1.00	
3-Nitroaniline	ND	1.7	0.24	1.00	
2-Nitroaniline	ND	1.7	0.18	1.00	
Nitrobenzene	ND	8.6	1.1	1.00	
4-Nitrophenol	ND	1.7	0.19	1.00	
2-Nitrophenol	ND	1.7	0.23	1.00	
Pentachlorophenol	ND	8.6	1.3	1.00	
Phenanthrene	ND	1.7	0.24	1.00	
Phenol	ND	1.7	0.17	1.00	
Pyrene	ND	1.7	0.26	1.00	
Pyridine	ND	1.7	0.19	1.00	
1,2,4-Trichlorobenzene	ND	1.7	0.20	1.00	
2,4,6-Trichlorophenol	ND	1.7	0.26	1.00	
2,4,5-Trichlorophenol	ND	1.7	0.22	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: EAA 27122			Page 3 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	56	27-120	
2-Fluorophenol	62	25-120	
Nitrobenzene-d5	55	33-123	
p-Terphenyl-d14	75	27-159	
Phenol-d6	63	26-122	
2,4,6-Tribromophenol	82	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM320	**15-06-0567-2-B**	**06/05/15 10:48**	**Solid**	**GC/MS CCC**	**06/11/15**	**06/12/15 13:13**	**150611L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	2.6	0.32	1.00	
Acenaphthylene	ND	2.6	0.30	1.00	
Aniline	ND	2.6	0.30	1.00	
Anthracene	ND	2.6	0.32	1.00	
Azobenzene	ND	2.6	0.28	1.00	
Benzidine	ND	51	4.2	1.00	
Benzo (a) Anthracene	0.51	2.6	0.29	1.00	J
Benzo (a) Pyrene	0.40	2.6	0.28	1.00	J
Benzo (b) Fluoranthene	ND	2.6	0.33	1.00	
Benzo (g,h,i) Perylene	0.33	2.6	0.28	1.00	J
Benzo (k) Fluoranthene	ND	2.6	0.33	1.00	
Benzoic Acid	ND	13	2.5	1.00	
Benzyl Alcohol	ND	2.6	0.34	1.00	
Bis(2-Chloroethoxy) Methane	ND	2.6	0.29	1.00	
Bis(2-Chloroethyl) Ether	ND	13	2.1	1.00	
Bis(2-Chloroisopropyl) Ether	ND	2.6	0.29	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	2.6	0.27	1.00	
4-Bromophenyl-Phenyl Ether	ND	2.6	0.31	1.00	
Butyl Benzyl Phthalate	ND	2.6	0.28	1.00	
4-Chloro-3-Methylphenol	ND	2.6	0.34	1.00	
4-Chloroaniline	ND	2.6	0.33	1.00	
2-Chloronaphthalene	ND	2.6	0.30	1.00	
2-Chlorophenol	ND	2.6	0.34	1.00	
4-Chlorophenyl-Phenyl Ether	ND	2.6	0.33	1.00	
Chrysene	0.59	2.6	0.33	1.00	J
Di-n-Butyl Phthalate	ND	2.6	0.31	1.00	
Di-n-Octyl Phthalate	ND	2.6	0.51	1.00	
Dibenz (a,h) Anthracene	ND	2.6	0.24	1.00	
Dibenzofuran	ND	2.6	0.31	1.00	
1,2-Dichlorobenzene	ND	2.6	0.33	1.00	
1,3-Dichlorobenzene	ND	2.6	0.37	1.00	
1,4-Dichlorobenzene	ND	2.6	0.38	1.00	
3,3'-Dichlorobenzidine	ND	51	1.9	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,4-Dichlorophenol	ND	2.6	0.30	1.00	
Diethyl Phthalate	ND	2.6	0.30	1.00	
Dimethyl Phthalate	ND	2.6	0.58	1.00	
2,4-Dimethylphenol	ND	2.6	1.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	13	3.2	1.00	
2,4-Dinitrophenol	ND	13	1.7	1.00	
2,4-Dinitrotoluene	ND	2.6	0.34	1.00	
2,6-Dinitrotoluene	ND	2.6	0.37	1.00	
Fluoranthene	0.84	2.6	0.32	1.00	J
Fluorene	ND	2.6	0.32	1.00	
Hexachloro-1,3-Butadiene	ND	2.6	0.32	1.00	
Hexachlorobenzene	ND	2.6	0.34	1.00	
Hexachlorocyclopentadiene	ND	13	2.6	1.00	
Hexachloroethane	ND	2.6	0.40	1.00	
Indeno (1,2,3-c,d) Pyrene	0.30	2.6	0.27	1.00	J
Isophorone	ND	2.6	0.29	1.00	
2-Methylnaphthalene	ND	2.6	0.31	1.00	
1-Methylnaphthalene	ND	2.6	0.29	1.00	
2-Methylphenol	ND	2.6	0.44	1.00	
3/4-Methylphenol	ND	2.6	0.83	1.00	
N-Nitroso-di-n-propylamine	ND	2.6	0.43	1.00	
N-Nitrosodimethylamine	ND	2.6	0.24	1.00	
N-Nitrosodiphenylamine	ND	2.6	0.70	1.00	
Naphthalene	ND	2.6	0.30	1.00	
4-Nitroaniline	ND	2.6	0.33	1.00	
3-Nitroaniline	ND	2.6	0.36	1.00	
2-Nitroaniline	ND	2.6	0.26	1.00	
Nitrobenzene	ND	13	1.7	1.00	
4-Nitrophenol	ND	2.6	0.28	1.00	
2-Nitrophenol	ND	2.6	0.34	1.00	
Pentachlorophenol	ND	13	2.0	1.00	
Phenanthrene	ND	2.6	0.35	1.00	
Phenol	ND	2.6	0.24	1.00	
Pyrene	0.79	2.6	0.39	1.00	J
Pyridine	ND	2.6	0.28	1.00	
1,2,4-Trichlorobenzene	ND	2.6	0.30	1.00	
2,4,6-Trichlorophenol	ND	2.6	0.39	1.00	
2,4,5-Trichlorophenol	ND	2.6	0.32	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	55	27-120	
2-Fluorophenol	67	25-120	
Nitrobenzene-d5	56	33-123	
p-Terphenyl-d14	79	27-159	
Phenol-d6	66	26-122	
2,4,6-Tribromophenol	84	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM330	**15-06-0567-3-B**	**06/05/15 11:03**	**Solid**	**GC/MS CCC**	**06/11/15**	**06/12/15 13:31**	**150611L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	0.62	0.079	1.00	
Acenaphthylene	ND	0.62	0.074	1.00	
Aniline	ND	0.62	0.074	1.00	
Anthracene	ND	0.62	0.079	1.00	
Azobenzene	ND	0.62	0.067	1.00	
Benzidine	ND	12	1.0	1.00	
Benzo (a) Anthracene	0.65	0.62	0.071	1.00	
Benzo (a) Pyrene	0.57	0.62	0.068	1.00	J
Benzo (b) Fluoranthene	0.72	0.62	0.079	1.00	
Benzo (g,h,i) Perylene	0.49	0.62	0.069	1.00	J
Benzo (k) Fluoranthene	0.61	0.62	0.081	1.00	J
Benzoic Acid	ND	3.1	0.62	1.00	
Benzyl Alcohol	ND	0.62	0.082	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.62	0.070	1.00	
Bis(2-Chloroethyl) Ether	ND	3.1	0.51	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.62	0.072	1.00	
Bis(2-Ethylhexyl) Phthalate	0.12	0.62	0.066	1.00	J
4-Bromophenyl-Phenyl Ether	ND	0.62	0.076	1.00	
Butyl Benzyl Phthalate	ND	0.62	0.067	1.00	
4-Chloro-3-Methylphenol	ND	0.62	0.083	1.00	
4-Chloroaniline	ND	0.62	0.081	1.00	
2-Chloronaphthalene	ND	0.62	0.074	1.00	
2-Chlorophenol	ND	0.62	0.083	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.62	0.080	1.00	
Chrysene	0.88	0.62	0.080	1.00	
Di-n-Butyl Phthalate	ND	0.62	0.075	1.00	
Di-n-Octyl Phthalate	ND	0.62	0.13	1.00	
Dibenz (a,h) Anthracene	0.15	0.62	0.058	1.00	J
Dibenzofuran	ND	0.62	0.075	1.00	
1,2-Dichlorobenzene	ND	0.62	0.080	1.00	
1,3-Dichlorobenzene	ND	0.62	0.091	1.00	
1,4-Dichlorobenzene	ND	0.62	0.094	1.00	
3,3'-Dichlorobenzidine	ND	12	0.45	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Parameter	Result	RL	MDL	DF	Qualifiers
2,4-Dichlorophenol	ND	0.62	0.072	1.00	
Diethyl Phthalate	ND	0.62	0.072	1.00	
Dimethyl Phthalate	ND	0.62	0.14	1.00	
2,4-Dimethylphenol	ND	0.62	0.33	1.00	
4,6-Dinitro-2-Methylphenol	ND	3.1	0.79	1.00	
2,4-Dinitrophenol	ND	3.1	0.42	1.00	
2,4-Dinitrotoluene	ND	0.62	0.083	1.00	
2,6-Dinitrotoluene	ND	0.62	0.091	1.00	
Fluoranthene	1.5	0.62	0.078	1.00	
Fluorene	ND	0.62	0.079	1.00	
Hexachloro-1,3-Butadiene	ND	0.62	0.079	1.00	
Hexachlorobenzene	ND	0.62	0.083	1.00	
Hexachlorocyclopentadiene	ND	3.1	0.63	1.00	
Hexachloroethane	ND	0.62	0.098	1.00	
Indeno (1,2,3-c,d) Pyrene	0.43	0.62	0.067	1.00	J
Isophorone	ND	0.62	0.071	1.00	
2-Methylnaphthalene	ND	0.62	0.075	1.00	
1-Methylnaphthalene	ND	0.62	0.070	1.00	
2-Methylphenol	ND	0.62	0.11	1.00	
3/4-Methylphenol	ND	0.62	0.20	1.00	
N-Nitroso-di-n-propylamine	ND	0.62	0.10	1.00	
N-Nitrosodimethylamine	ND	0.62	0.059	1.00	
N-Nitrosodiphenylamine	ND	0.62	0.17	1.00	
Naphthalene	ND	0.62	0.073	1.00	
4-Nitroaniline	ND	0.62	0.081	1.00	
3-Nitroaniline	ND	0.62	0.087	1.00	
2-Nitroaniline	ND	0.62	0.065	1.00	
Nitrobenzene	ND	3.1	0.40	1.00	
4-Nitrophenol	ND	0.62	0.068	1.00	
2-Nitrophenol	ND	0.62	0.084	1.00	
Pentachlorophenol	ND	3.1	0.48	1.00	
Phenanthrene	0.59	0.62	0.085	1.00	J
Phenol	ND	0.62	0.060	1.00	
Pyrene	1.4	0.62	0.095	1.00	
Pyridine	ND	0.62	0.068	1.00	
1,2,4-Trichlorobenzene	ND	0.62	0.074	1.00	
2,4,6-Trichlorophenol	ND	0.62	0.096	1.00	
2,4,5-Trichlorophenol	ND	0.62	0.079	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: EAA 27122			Page 9 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	73	27-120	
2-Fluorophenol	74	25-120	
Nitrobenzene-d5	64	33-123	
p-Terphenyl-d14	95	27-159	
Phenol-d6	76	26-122	
2,4,6-Tribromophenol	98	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM340	**15-06-0567-4-B**	**06/05/15 11:21**	**Solid**	**GC/MS CCC**	**06/11/15**	**06/12/15 13:49**	**150611L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	0.27	1.2	0.16	2.00	J
Acenaphthylene	ND	1.2	0.15	2.00	
Aniline	ND	1.2	0.15	2.00	
Anthracene	0.68	1.2	0.16	2.00	J
Azobenzene	ND	1.2	0.13	2.00	
Benzidine	ND	25	2.0	2.00	
Benzo (a) Anthracene	4.7	1.2	0.14	2.00	
Benzo (a) Pyrene	3.8	1.2	0.14	2.00	
Benzo (b) Fluoranthene	4.8	1.2	0.16	2.00	
Benzo (g,h,i) Perylene	2.9	1.2	0.14	2.00	
Benzo (k) Fluoranthene	3.8	1.2	0.16	2.00	
Benzoic Acid	ND	6.2	1.2	2.00	
Benzyl Alcohol	ND	1.2	0.16	2.00	
Bis(2-Chloroethoxy) Methane	ND	1.2	0.14	2.00	
Bis(2-Chloroethyl) Ether	ND	6.2	1.0	2.00	
Bis(2-Chloroisopropyl) Ether	ND	1.2	0.14	2.00	
Bis(2-Ethylhexyl) Phthalate	0.74	1.2	0.13	2.00	J
4-Bromophenyl-Phenyl Ether	ND	1.2	0.15	2.00	
Butyl Benzyl Phthalate	ND	1.2	0.13	2.00	
4-Chloro-3-Methylphenol	ND	1.2	0.16	2.00	
4-Chloroaniline	ND	1.2	0.16	2.00	
2-Chloronaphthalene	ND	1.2	0.15	2.00	
2-Chlorophenol	ND	1.2	0.17	2.00	
4-Chlorophenyl-Phenyl Ether	ND	1.2	0.16	2.00	
Chrysene	6.2	1.2	0.16	2.00	
Di-n-Butyl Phthalate	ND	1.2	0.15	2.00	
Di-n-Octyl Phthalate	ND	1.2	0.25	2.00	
Dibenz (a,h) Anthracene	0.88	1.2	0.12	2.00	J
Dibenzofuran	ND	1.2	0.15	2.00	
1,2-Dichlorobenzene	ND	1.2	0.16	2.00	
1,3-Dichlorobenzene	ND	1.2	0.18	2.00	
1,4-Dichlorobenzene	ND	1.2	0.19	2.00	
3,3'-Dichlorobenzidine	ND	25	0.90	2.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,4-Dichlorophenol	ND	1.2	0.14	2.00	
Diethyl Phthalate	ND	1.2	0.14	2.00	
Dimethyl Phthalate	ND	1.2	0.28	2.00	
2,4-Dimethylphenol	ND	1.2	0.66	2.00	
4,6-Dinitro-2-Methylphenol	ND	6.2	1.6	2.00	
2,4-Dinitrophenol	ND	6.2	0.84	2.00	
2,4-Dinitrotoluene	ND	1.2	0.17	2.00	
2,6-Dinitrotoluene	ND	1.2	0.18	2.00	
Fluoranthene	13	1.2	0.15	2.00	
Fluorene	0.31	1.2	0.16	2.00	J
Hexachloro-1,3-Butadiene	ND	1.2	0.16	2.00	
Hexachlorobenzene	ND	1.2	0.17	2.00	
Hexachlorocyclopentadiene	ND	6.2	1.3	2.00	
Hexachloroethane	ND	1.2	0.19	2.00	
Indeno (1,2,3-c,d) Pyrene	2.7	1.2	0.13	2.00	
Isophorone	ND	1.2	0.14	2.00	
2-Methylnaphthalene	ND	1.2	0.15	2.00	
1-Methylnaphthalene	ND	1.2	0.14	2.00	
2-Methylphenol	ND	1.2	0.21	2.00	
3/4-Methylphenol	ND	1.2	0.40	2.00	
N-Nitroso-di-n-propylamine	ND	1.2	0.21	2.00	
N-Nitrosodimethylamine	ND	1.2	0.12	2.00	
N-Nitrosodiphenylamine	ND	1.2	0.34	2.00	
Naphthalene	ND	1.2	0.15	2.00	
4-Nitroaniline	ND	1.2	0.16	2.00	
3-Nitroaniline	ND	1.2	0.17	2.00	
2-Nitroaniline	ND	1.2	0.13	2.00	
Nitrobenzene	ND	6.2	0.80	2.00	
4-Nitrophenol	ND	1.2	0.13	2.00	
2-Nitrophenol	ND	1.2	0.17	2.00	
Pentachlorophenol	ND	6.2	0.96	2.00	
Phenanthrene	6.6	1.2	0.17	2.00	
Phenol	ND	1.2	0.12	2.00	
Pyrene	12	1.2	0.19	2.00	
Pyridine	ND	1.2	0.14	2.00	
1,2,4-Trichlorobenzene	ND	1.2	0.15	2.00	
2,4,6-Trichlorophenol	ND	1.2	0.19	2.00	
2,4,5-Trichlorophenol	ND	1.2	0.16	2.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: EAA 27122			Page 12 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	75	27-120	
2-Fluorophenol	62	25-120	
Nitrobenzene-d5	64	33-123	
p-Terphenyl-d14	92	27-159	
Phenol-d6	66	26-122	
2,4,6-Tribromophenol	82	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM350	**15-06-0567-5-B**	**06/05/15 12:24**	**Solid**	**GC/MS CCC**	**06/11/15**	**06/12/15 14:07**	**150611L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	1.1	0.14	1.00	
Acenaphthylene	ND	1.1	0.13	1.00	
Aniline	ND	1.1	0.13	1.00	
Anthracene	ND	1.1	0.14	1.00	
Azobenzene	ND	1.1	0.12	1.00	
Benzidine	ND	22	1.8	1.00	
Benzo (a) Anthracene	0.15	1.1	0.12	1.00	J
Benzo (a) Pyrene	0.15	1.1	0.12	1.00	J
Benzo (b) Fluoranthene	0.21	1.1	0.14	1.00	J
Benzo (g,h,i) Perylene	0.13	1.1	0.12	1.00	J
Benzo (k) Fluoranthene	0.15	1.1	0.14	1.00	J
Benzoic Acid	ND	5.4	1.1	1.00	
Benzyl Alcohol	ND	1.1	0.14	1.00	
Bis(2-Chloroethoxy) Methane	ND	1.1	0.12	1.00	
Bis(2-Chloroethyl) Ether	ND	5.4	0.88	1.00	
Bis(2-Chloroisopropyl) Ether	ND	1.1	0.12	1.00	
Bis(2-Ethylhexyl) Phthalate	0.24	1.1	0.12	1.00	J
4-Bromophenyl-Phenyl Ether	ND	1.1	0.13	1.00	
Butyl Benzyl Phthalate	ND	1.1	0.12	1.00	
4-Chloro-3-Methylphenol	ND	1.1	0.14	1.00	
4-Chloroaniline	ND	1.1	0.14	1.00	
2-Chloronaphthalene	ND	1.1	0.13	1.00	
2-Chlorophenol	ND	1.1	0.14	1.00	
4-Chlorophenyl-Phenyl Ether	ND	1.1	0.14	1.00	
Chrysene	0.21	1.1	0.14	1.00	J
Di-n-Butyl Phthalate	ND	1.1	0.13	1.00	
Di-n-Octyl Phthalate	ND	1.1	0.22	1.00	
Dibenz (a,h) Anthracene	ND	1.1	0.10	1.00	
Dibenzofuran	ND	1.1	0.13	1.00	
1,2-Dichlorobenzene	ND	1.1	0.14	1.00	
1,3-Dichlorobenzene	ND	1.1	0.16	1.00	
1,4-Dichlorobenzene	ND	1.1	0.16	1.00	
3,3'-Dichlorobenzidine	ND	22	0.79	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,4-Dichlorophenol	ND	1.1	0.13	1.00	
Diethyl Phthalate	ND	1.1	0.13	1.00	
Dimethyl Phthalate	ND	1.1	0.25	1.00	
2,4-Dimethylphenol	ND	1.1	0.57	1.00	
4,6-Dinitro-2-Methylphenol	ND	5.4	1.4	1.00	
2,4-Dinitrophenol	ND	5.4	0.73	1.00	
2,4-Dinitrotoluene	ND	1.1	0.14	1.00	
2,6-Dinitrotoluene	ND	1.1	0.16	1.00	
Fluoranthene	0.30	1.1	0.13	1.00	J
Fluorene	ND	1.1	0.14	1.00	
Hexachloro-1,3-Butadiene	ND	1.1	0.14	1.00	
Hexachlorobenzene	ND	1.1	0.14	1.00	
Hexachlorocyclopentadiene	ND	5.4	1.1	1.00	
Hexachloroethane	ND	1.1	0.17	1.00	
Indeno (1,2,3-c,d) Pyrene	0.12	1.1	0.12	1.00	J
Isophorone	ND	1.1	0.12	1.00	
2-Methylnaphthalene	ND	1.1	0.13	1.00	
1-Methylnaphthalene	ND	1.1	0.12	1.00	
2-Methylphenol	ND	1.1	0.19	1.00	
3/4-Methylphenol	ND	1.1	0.35	1.00	
N-Nitroso-di-n-propylamine	ND	1.1	0.18	1.00	
N-Nitrosodimethylamine	ND	1.1	0.10	1.00	
N-Nitrosodiphenylamine	ND	1.1	0.30	1.00	
Naphthalene	ND	1.1	0.13	1.00	
4-Nitroaniline	ND	1.1	0.14	1.00	
3-Nitroaniline	ND	1.1	0.15	1.00	
2-Nitroaniline	ND	1.1	0.11	1.00	
Nitrobenzene	ND	5.4	0.70	1.00	
4-Nitrophenol	ND	1.1	0.12	1.00	
2-Nitrophenol	ND	1.1	0.15	1.00	
Pentachlorophenol	ND	5.4	0.84	1.00	
Phenanthrene	ND	1.1	0.15	1.00	
Phenol	ND	1.1	0.10	1.00	
Pyrene	0.66	1.1	0.17	1.00	J
Pyridine	ND	1.1	0.12	1.00	
1,2,4-Trichlorobenzene	ND	1.1	0.13	1.00	
2,4,6-Trichlorophenol	ND	1.1	0.17	1.00	
2,4,5-Trichlorophenol	ND	1.1	0.14	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	54	27-120	
2-Fluorophenol	50	25-120	
Nitrobenzene-d5	42	33-123	
p-Terphenyl-d14	67	27-159	
Phenol-d6	51	26-122	
2,4,6-Tribromophenol	71	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM360	**15-06-0567-6-B**	**06/05/15 13:13**	**Solid**	**GC/MS CCC**	**06/11/15**	**06/12/15 14:25**	**150611L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	0.66	0.084	1.00	
Acenaphthylene	ND	0.66	0.079	1.00	
Aniline	ND	0.66	0.079	1.00	
Anthracene	ND	0.66	0.084	1.00	
Azobenzene	ND	0.66	0.072	1.00	
Benzidine	ND	13	1.1	1.00	
Benzo (a) Anthracene	ND	0.66	0.076	1.00	
Benzo (a) Pyrene	ND	0.66	0.072	1.00	
Benzo (b) Fluoranthene	0.090	0.66	0.085	1.00	J
Benzo (g,h,i) Perylene	ND	0.66	0.073	1.00	
Benzo (k) Fluoranthene	ND	0.66	0.086	1.00	
Benzoic Acid	ND	3.3	0.66	1.00	
Benzyl Alcohol	ND	0.66	0.088	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.66	0.075	1.00	
Bis(2-Chloroethyl) Ether	ND	3.3	0.54	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.66	0.076	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.66	0.071	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.66	0.081	1.00	
Butyl Benzyl Phthalate	ND	0.66	0.072	1.00	
4-Chloro-3-Methylphenol	ND	0.66	0.088	1.00	
4-Chloroaniline	ND	0.66	0.087	1.00	
2-Chloronaphthalene	ND	0.66	0.079	1.00	
2-Chlorophenol	ND	0.66	0.089	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.66	0.085	1.00	
Chrysene	0.087	0.66	0.085	1.00	J
Di-n-Butyl Phthalate	ND	0.66	0.080	1.00	
Di-n-Octyl Phthalate	ND	0.66	0.13	1.00	
Dibenz (a,h) Anthracene	ND	0.66	0.062	1.00	
Dibenzofuran	ND	0.66	0.080	1.00	
1,2-Dichlorobenzene	ND	0.66	0.085	1.00	
1,3-Dichlorobenzene	ND	0.66	0.097	1.00	
1,4-Dichlorobenzene	ND	0.66	0.10	1.00	
3,3'-Dichlorobenzidine	ND	13	0.48	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,4-Dichlorophenol	ND	0.66	0.077	1.00	
Diethyl Phthalate	ND	0.66	0.077	1.00	
Dimethyl Phthalate	ND	0.66	0.15	1.00	
2,4-Dimethylphenol	ND	0.66	0.35	1.00	
4,6-Dinitro-2-Methylphenol	ND	3.3	0.84	1.00	
2,4-Dinitrophenol	ND	3.3	0.45	1.00	
2,4-Dinitrotoluene	ND	0.66	0.089	1.00	
2,6-Dinitrotoluene	ND	0.66	0.097	1.00	
Fluoranthene	0.11	0.66	0.083	1.00	J
Fluorene	ND	0.66	0.084	1.00	
Hexachloro-1,3-Butadiene	ND	0.66	0.084	1.00	
Hexachlorobenzene	ND	0.66	0.089	1.00	
Hexachlorocyclopentadiene	ND	3.3	0.67	1.00	
Hexachloroethane	ND	0.66	0.10	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.66	0.071	1.00	
Isophorone	ND	0.66	0.076	1.00	
2-Methylnaphthalene	ND	0.66	0.080	1.00	
1-Methylnaphthalene	ND	0.66	0.075	1.00	
2-Methylphenol	ND	0.66	0.12	1.00	
3/4-Methylphenol	ND	0.66	0.22	1.00	
N-Nitroso-di-n-propylamine	ND	0.66	0.11	1.00	
N-Nitrosodimethylamine	ND	0.66	0.063	1.00	
N-Nitrosodiphenylamine	ND	0.66	0.18	1.00	
Naphthalene	ND	0.66	0.078	1.00	
4-Nitroaniline	ND	0.66	0.087	1.00	
3-Nitroaniline	ND	0.66	0.093	1.00	
2-Nitroaniline	ND	0.66	0.069	1.00	
Nitrobenzene	ND	3.3	0.43	1.00	
4-Nitrophenol	ND	0.66	0.072	1.00	
2-Nitrophenol	ND	0.66	0.090	1.00	
Pentachlorophenol	ND	3.3	0.51	1.00	
Phenanthrene	ND	0.66	0.091	1.00	
Phenol	ND	0.66	0.064	1.00	
Pyrene	0.11	0.66	0.10	1.00	J
Pyridine	ND	0.66	0.073	1.00	
1,2,4-Trichlorobenzene	ND	0.66	0.079	1.00	
2,4,6-Trichlorophenol	ND	0.66	0.10	1.00	
2,4,5-Trichlorophenol	ND	0.66	0.085	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: EAA 27122			Page 18 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	82	27-120	
2-Fluorophenol	77	25-120	
Nitrobenzene-d5	78	33-123	
p-Terphenyl-d14	104	27-159	
Phenol-d6	77	26-122	
2,4,6-Tribromophenol	98	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM370	**15-06-0567-7-B**	**06/05/15 13:51**	**Solid**	**GC/MS CCC**	**06/11/15**	**06/12/15 15:01**	**150611L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	0.85	0.11	1.00	
Acenaphthylene	ND	0.85	0.10	1.00	
Aniline	ND	0.85	0.10	1.00	
Anthracene	ND	0.85	0.11	1.00	
Azobenzene	ND	0.85	0.092	1.00	
Benzidine	ND	17	1.4	1.00	
Benzo (a) Anthracene	ND	0.85	0.097	1.00	
Benzo (a) Pyrene	ND	0.85	0.093	1.00	
Benzo (b) Fluoranthene	ND	0.85	0.11	1.00	
Benzo (g,h,i) Perylene	ND	0.85	0.094	1.00	
Benzo (k) Fluoranthene	ND	0.85	0.11	1.00	
Benzoic Acid	ND	4.3	0.84	1.00	
Benzyl Alcohol	ND	0.85	0.11	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.85	0.096	1.00	
Bis(2-Chloroethyl) Ether	ND	4.3	0.69	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.85	0.098	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.85	0.091	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.85	0.10	1.00	
Butyl Benzyl Phthalate	ND	0.85	0.092	1.00	
4-Chloro-3-Methylphenol	ND	0.85	0.11	1.00	
4-Chloroaniline	ND	0.85	0.11	1.00	
2-Chloronaphthalene	ND	0.85	0.10	1.00	
2-Chlorophenol	ND	0.85	0.11	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.85	0.11	1.00	
Chrysene	ND	0.85	0.11	1.00	
Di-n-Butyl Phthalate	ND	0.85	0.10	1.00	
Di-n-Octyl Phthalate	0.48	0.85	0.17	1.00	J
Dibenz (a,h) Anthracene	ND	0.85	0.079	1.00	
Dibenzofuran	ND	0.85	0.10	1.00	
1,2-Dichlorobenzene	ND	0.85	0.11	1.00	
1,3-Dichlorobenzene	ND	0.85	0.12	1.00	
1,4-Dichlorobenzene	ND	0.85	0.13	1.00	
3,3'-Dichlorobenzidine	ND	17	0.62	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,4-Dichlorophenol	ND	0.85	0.099	1.00	
Diethyl Phthalate	ND	0.85	0.099	1.00	
Dimethyl Phthalate	ND	0.85	0.19	1.00	
2,4-Dimethylphenol	ND	0.85	0.45	1.00	
4,6-Dinitro-2-Methylphenol	ND	4.3	1.1	1.00	
2,4-Dinitrophenol	ND	4.3	0.58	1.00	
2,4-Dinitrotoluene	ND	0.85	0.11	1.00	
2,6-Dinitrotoluene	ND	0.85	0.12	1.00	
Fluoranthene	0.11	0.85	0.11	1.00	J
Fluorene	ND	0.85	0.11	1.00	
Hexachloro-1,3-Butadiene	ND	0.85	0.11	1.00	
Hexachlorobenzene	ND	0.85	0.11	1.00	
Hexachlorocyclopentadiene	ND	4.3	0.86	1.00	
Hexachloroethane	ND	0.85	0.13	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.85	0.091	1.00	
Isophorone	ND	0.85	0.097	1.00	
2-Methylnaphthalene	0.15	0.85	0.10	1.00	J
1-Methylnaphthalene	ND	0.85	0.096	1.00	
2-Methylphenol	ND	0.85	0.15	1.00	
3/4-Methylphenol	ND	0.85	0.28	1.00	
N-Nitroso-di-n-propylamine	ND	0.85	0.14	1.00	
N-Nitrosodimethylamine	ND	0.85	0.080	1.00	
N-Nitrosodiphenylamine	ND	0.85	0.23	1.00	
Naphthalene	ND	0.85	0.10	1.00	
4-Nitroaniline	ND	0.85	0.11	1.00	
3-Nitroaniline	ND	0.85	0.12	1.00	
2-Nitroaniline	ND	0.85	0.088	1.00	
Nitrobenzene	ND	4.3	0.55	1.00	
4-Nitrophenol	ND	0.85	0.092	1.00	
2-Nitrophenol	ND	0.85	0.11	1.00	
Pentachlorophenol	ND	4.3	0.66	1.00	
Phenanthrene	ND	0.85	0.12	1.00	
Phenol	ND	0.85	0.081	1.00	
Pyrene	ND	0.85	0.13	1.00	
Pyridine	ND	0.85	0.093	1.00	
1,2,4-Trichlorobenzene	ND	0.85	0.10	1.00	
2,4,6-Trichlorophenol	ND	0.85	0.13	1.00	
2,4,5-Trichlorophenol	ND	0.85	0.11	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	65	27-120	
2-Fluorophenol	58	25-120	
Nitrobenzene-d5	54	33-123	
p-Terphenyl-d14	79	27-159	
Phenol-d6	54	26-122	
2,4,6-Tribromophenol	96	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM370	**15-06-0567-8-B**	**06/05/15 13:51**	**Solid**	**GC/MS CCC**	**06/11/15**	**06/12/15 15:19**	**150611L02**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	0.92	0.12	1.00	
Acenaphthylene	ND	0.92	0.11	1.00	
Aniline	ND	0.92	0.11	1.00	
Anthracene	ND	0.92	0.12	1.00	
Azobenzene	ND	0.92	0.10	1.00	
Benzidine	ND	18	1.5	1.00	
Benzo (a) Anthracene	ND	0.92	0.10	1.00	
Benzo (a) Pyrene	ND	0.92	0.10	1.00	
Benzo (b) Fluoranthene	ND	0.92	0.12	1.00	
Benzo (g,h,i) Perylene	ND	0.92	0.10	1.00	
Benzo (k) Fluoranthene	ND	0.92	0.12	1.00	
Benzoic Acid	ND	4.6	0.91	1.00	
Benzyl Alcohol	ND	0.92	0.12	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.92	0.10	1.00	
Bis(2-Chloroethyl) Ether	ND	4.6	0.75	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.92	0.11	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.92	0.098	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.92	0.11	1.00	
Butyl Benzyl Phthalate	ND	0.92	0.099	1.00	
4-Chloro-3-Methylphenol	ND	0.92	0.12	1.00	
4-Chloroaniline	ND	0.92	0.12	1.00	
2-Chloronaphthalene	ND	0.92	0.11	1.00	
2-Chlorophenol	ND	0.92	0.12	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.92	0.12	1.00	
Chrysene	ND	0.92	0.12	1.00	
Di-n-Butyl Phthalate	ND	0.92	0.11	1.00	
Di-n-Octyl Phthalate	ND	0.92	0.19	1.00	
Dibenz (a,h) Anthracene	ND	0.92	0.085	1.00	
Dibenzofuran	ND	0.92	0.11	1.00	
1,2-Dichlorobenzene	ND	0.92	0.12	1.00	
1,3-Dichlorobenzene	ND	0.92	0.14	1.00	
1,4-Dichlorobenzene	ND	0.92	0.14	1.00	
3,3'-Dichlorobenzidine	ND	18	0.67	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,4-Dichlorophenol	ND	0.92	0.11	1.00	
Diethyl Phthalate	ND	0.92	0.11	1.00	
Dimethyl Phthalate	ND	0.92	0.21	1.00	
2,4-Dimethylphenol	ND	0.92	0.49	1.00	
4,6-Dinitro-2-Methylphenol	ND	4.6	1.2	1.00	
2,4-Dinitrophenol	ND	4.6	0.62	1.00	
2,4-Dinitrotoluene	ND	0.92	0.12	1.00	
2,6-Dinitrotoluene	ND	0.92	0.13	1.00	
Fluoranthene	ND	0.92	0.11	1.00	
Fluorene	ND	0.92	0.12	1.00	
Hexachloro-1,3-Butadiene	ND	0.92	0.12	1.00	
Hexachlorobenzene	ND	0.92	0.12	1.00	
Hexachlorocyclopentadiene	ND	4.6	0.93	1.00	
Hexachloroethane	ND	0.92	0.14	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.92	0.098	1.00	
Isophorone	ND	0.92	0.10	1.00	
2-Methylnaphthalene	ND	0.92	0.11	1.00	
1-Methylnaphthalene	ND	0.92	0.10	1.00	
2-Methylphenol	ND	0.92	0.16	1.00	
3/4-Methylphenol	ND	0.92	0.30	1.00	
N-Nitroso-di-n-propylamine	ND	0.92	0.15	1.00	
N-Nitrosodimethylamine	ND	0.92	0.087	1.00	
N-Nitrosodiphenylamine	ND	0.92	0.25	1.00	
Naphthalene	ND	0.92	0.11	1.00	
4-Nitroaniline	ND	0.92	0.12	1.00	
3-Nitroaniline	ND	0.92	0.13	1.00	
2-Nitroaniline	ND	0.92	0.095	1.00	
Nitrobenzene	ND	4.6	0.60	1.00	
4-Nitrophenol	ND	0.92	0.10	1.00	
2-Nitrophenol	ND	0.92	0.12	1.00	
Pentachlorophenol	ND	4.6	0.71	1.00	
Phenanthrene	ND	0.92	0.13	1.00	
Phenol	ND	0.92	0.088	1.00	
Pyrene	ND	0.92	0.14	1.00	
Pyridine	ND	0.92	0.10	1.00	
1,2,4-Trichlorobenzene	ND	0.92	0.11	1.00	
2,4,6-Trichlorophenol	ND	0.92	0.14	1.00	
2,4,5-Trichlorophenol	ND	0.92	0.12	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: EAA 27122			Page 24 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	75	27-120	
2-Fluorophenol	67	25-120	
Nitrobenzene-d5	64	33-123	
p-Terphenyl-d14	93	27-159	
Phenol-d6	61	26-122	
2,4,6-Tribromophenol	103	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-3303**	**N/A**	**Solid**	**GC/MS TT**	**06/11/15**	**06/11/15 16:16**	**150611L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	0.50	0.063	1.00	
Acenaphthylene	ND	0.50	0.060	1.00	
Aniline	ND	0.50	0.060	1.00	
Anthracene	ND	0.50	0.063	1.00	
Azobenzene	ND	0.50	0.054	1.00	
Benzidine	ND	10	0.83	1.00	
Benzo (a) Anthracene	ND	0.50	0.057	1.00	
Benzo (a) Pyrene	ND	0.50	0.054	1.00	
Benzo (b) Fluoranthene	ND	0.50	0.064	1.00	
Benzo (g,h,i) Perylene	ND	0.50	0.055	1.00	
Benzo (k) Fluoranthene	ND	0.50	0.065	1.00	
Benzoic Acid	ND	2.5	0.50	1.00	
Benzyl Alcohol	ND	0.50	0.066	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.056	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	0.41	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.057	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.053	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	0.061	1.00	
Butyl Benzyl Phthalate	ND	0.50	0.054	1.00	
4-Chloro-3-Methylphenol	ND	0.50	0.066	1.00	
4-Chloroaniline	ND	0.50	0.065	1.00	
2-Chloronaphthalene	ND	0.50	0.059	1.00	
2-Chlorophenol	ND	0.50	0.067	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	0.064	1.00	
Chrysene	ND	0.50	0.064	1.00	
Di-n-Butyl Phthalate	ND	0.50	0.060	1.00	
Di-n-Octyl Phthalate	ND	0.50	0.10	1.00	
Dibenz (a,h) Anthracene	ND	0.50	0.046	1.00	
Dibenzofuran	ND	0.50	0.060	1.00	
1,2-Dichlorobenzene	ND	0.50	0.064	1.00	
1,3-Dichlorobenzene	ND	0.50	0.073	1.00	
1,4-Dichlorobenzene	ND	0.50	0.075	1.00	
3,3'-Dichlorobenzidine	ND	10	0.36	1.00	
2,4-Dichlorophenol	ND	0.50	0.058	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	0.50	0.058	1.00	
Dimethyl Phthalate	ND	0.50	0.11	1.00	
2,4-Dimethylphenol	ND	0.50	0.27	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	0.63	1.00	
2,4-Dinitrophenol	ND	2.5	0.34	1.00	
2,4-Dinitrotoluene	ND	0.50	0.067	1.00	
2,6-Dinitrotoluene	ND	0.50	0.073	1.00	
Fluoranthene	ND	0.50	0.062	1.00	
Fluorene	ND	0.50	0.063	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	0.063	1.00	
Hexachlorobenzene	ND	0.50	0.067	1.00	
Hexachlorocyclopentadiene	ND	2.5	0.50	1.00	
Hexachloroethane	ND	0.50	0.078	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.053	1.00	
Isophorone	ND	0.50	0.057	1.00	
2-Methylnaphthalene	ND	0.50	0.060	1.00	
1-Methylnaphthalene	ND	0.50	0.056	1.00	
2-Methylphenol	ND	0.50	0.087	1.00	
3/4-Methylphenol	ND	0.50	0.16	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	0.084	1.00	
N-Nitrosodimethylamine	ND	0.50	0.047	1.00	
N-Nitrosodiphenylamine	ND	0.50	0.14	1.00	
Naphthalene	ND	0.50	0.059	1.00	
4-Nitroaniline	ND	0.50	0.065	1.00	
3-Nitroaniline	ND	0.50	0.070	1.00	
2-Nitroaniline	ND	0.50	0.052	1.00	
Nitrobenzene	ND	2.5	0.32	1.00	
4-Nitrophenol	ND	0.50	0.054	1.00	
2-Nitrophenol	ND	0.50	0.067	1.00	
Pentachlorophenol	ND	2.5	0.39	1.00	
Phenanthrene	ND	0.50	0.069	1.00	
Phenol	ND	0.50	0.048	1.00	
Pyrene	ND	0.50	0.077	1.00	
Pyridine	ND	0.50	0.055	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.059	1.00	
2,4,6-Trichlorophenol	ND	0.50	0.077	1.00	
2,4,5-Trichlorophenol	ND	0.50	0.064	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	85	27-120	
2-Fluorophenol	86	25-120	
Nitrobenzene-d5	85	33-123	
p-Terphenyl-d14	95	27-159	
Phenol-d6	80	26-122	
2,4,6-Tribromophenol	113	18-138	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB08	**15-06-0567-9-A**	**06/05/15 00:00**	**Aqueous**	**GC/MS WW**	**06/13/15**	**06/13/15 16:15**	**150613L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	111	78-126	
1,2-Dichloroethane-d4	110	75-135	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB01	**15-06-0567-10-A**	**06/05/15 15:41**	**Aqueous**	**GC/MS WW**	**06/13/15**	**06/13/15 16:48**	**150613L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	23	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	0.27	1.0	0.24	1.00	J
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	111	78-126	
1,2-Dichloroethane-d4	110	75-135	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-17386**	**N/A**	**Aqueous**	**GC/MS WW**	**06/13/15**	**06/13/15 15:44**	**150613L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	0.42	10	0.41	1.00	J
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	106	78-126	
1,2-Dichloroethane-d4	107	75-135	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM310	**15-06-0567-1-A**	**06/05/15 10:03**	**Solid**	**GC/MS BB**	**06/07/15**	**06/09/15 01:29**	**150608L032**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	450	22	1.00	
Benzene	ND	18	0.47	1.00	
Bromobenzene	ND	18	0.75	1.00	
Bromochloromethane	ND	18	2.5	1.00	
Bromodichloromethane	ND	18	0.83	1.00	
Bromoform	ND	18	2.8	1.00	
Bromomethane	ND	90	34	1.00	
2-Butanone	ND	180	14	1.00	
n-Butylbenzene	ND	18	0.56	1.00	
sec-Butylbenzene	ND	18	2.1	1.00	
tert-Butylbenzene	ND	18	0.54	1.00	
Carbon Disulfide	2.2	180	1.1	1.00	J
Carbon Tetrachloride	ND	18	1.0	1.00	
Chlorobenzene	ND	18	0.80	1.00	
Chloroethane	ND	18	5.3	1.00	
Chloroform	ND	18	0.86	1.00	
Chloromethane	ND	90	1.1	1.00	
2-Chlorotoluene	ND	18	0.83	1.00	
4-Chlorotoluene	ND	18	0.76	1.00	
Dibromochloromethane	ND	18	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	36	6.2	1.00	
1,2-Dibromoethane	ND	18	0.92	1.00	
Dibromomethane	ND	18	2.8	1.00	
1,2-Dichlorobenzene	ND	18	0.82	1.00	
1,3-Dichlorobenzene	ND	18	0.63	1.00	
1,4-Dichlorobenzene	ND	18	0.80	1.00	
Dichlorodifluoromethane	ND	18	1.6	1.00	
1,1-Dichloroethane	ND	18	0.76	1.00	
1,2-Dichloroethane	ND	18	1.1	1.00	
1,1-Dichloroethene	ND	18	1.2	1.00	
c-1,2-Dichloroethene	ND	18	1.0	1.00	
t-1,2-Dichloroethene	ND	18	1.8	1.00	
1,2-Dichloropropane	ND	18	1.6	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Parameter	Result	RL	MDL	DF	Qualifiers
1,3-Dichloropropane	ND	18	0.91	1.00	
2,2-Dichloropropane	ND	18	1.2	1.00	
1,1-Dichloropropene	ND	18	1.2	1.00	
c-1,3-Dichloropropene	ND	18	0.91	1.00	
t-1,3-Dichloropropene	ND	18	2.2	1.00	
Ethylbenzene	ND	18	0.54	1.00	
2-Hexanone	ND	180	6.3	1.00	
Isopropylbenzene	ND	18	2.0	1.00	
p-Isopropyltoluene	ND	18	2.3	1.00	
Methylene Chloride	ND	180	4.8	1.00	
4-Methyl-2-Pentanone	ND	180	15	1.00	
Naphthalene	ND	180	2.9	1.00	
n-Propylbenzene	ND	18	1.8	1.00	
Styrene	ND	18	2.2	1.00	
1,1,1,2-Tetrachloroethane	ND	18	0.86	1.00	
1,1,2,2-Tetrachloroethane	ND	18	1.2	1.00	
Tetrachloroethene	ND	18	0.75	1.00	
Toluene	ND	18	1.8	1.00	
1,2,3-Trichlorobenzene	ND	36	3.3	1.00	
1,2,4-Trichlorobenzene	ND	18	1.1	1.00	
1,1,1-Trichloroethane	ND	18	0.81	1.00	
1,1,2-Trichloroethane	ND	18	1.3	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	180	1.3	1.00	
Trichloroethene	ND	18	1.1	1.00	
1,2,3-Trichloropropane	ND	18	3.0	1.00	
1,2,4-Trimethylbenzene	ND	18	2.1	1.00	
Trichlorofluoromethane	ND	180	1.3	1.00	
1,3,5-Trimethylbenzene	ND	18	2.0	1.00	
Vinyl Acetate	ND	180	17	1.00	
Vinyl Chloride	ND	18	1.8	1.00	
p/m-Xylene	ND	18	0.96	1.00	
o-Xylene	ND	18	2.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	18	1.1	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	60-132	
Dibromofluoromethane	105	63-141	
1,2-Dichloroethane-d4	110	62-146	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM320	**15-06-0567-2-A**	**06/05/15 10:48**	**Solid**	**GC/MS Q**	**06/07/15**	**06/09/15 05:12**	**150608L054**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	650	32	1.00	
Benzene	ND	26	0.67	1.00	
Bromobenzene	ND	26	1.1	1.00	
Bromochloromethane	ND	26	3.6	1.00	
Bromodichloromethane	ND	26	1.2	1.00	
Bromoform	ND	26	4.1	1.00	
Bromomethane	ND	130	49	1.00	
2-Butanone	ND	260	19	1.00	
n-Butylbenzene	ND	26	0.81	1.00	
sec-Butylbenzene	ND	26	3.0	1.00	
tert-Butylbenzene	ND	26	0.78	1.00	
Carbon Disulfide	ND	260	1.6	1.00	
Carbon Tetrachloride	ND	26	1.5	1.00	
Chlorobenzene	ND	26	1.2	1.00	
Chloroethane	ND	26	7.7	1.00	
Chloroform	ND	26	1.2	1.00	
Chloromethane	ND	130	1.6	1.00	
2-Chlorotoluene	ND	26	1.2	1.00	
4-Chlorotoluene	ND	26	1.1	1.00	
Dibromochloromethane	ND	26	2.9	1.00	
1,2-Dibromo-3-Chloropropane	ND	52	9.0	1.00	
1,2-Dibromoethane	ND	26	1.3	1.00	
Dibromomethane	ND	26	4.0	1.00	
1,2-Dichlorobenzene	ND	26	1.2	1.00	
1,3-Dichlorobenzene	ND	26	0.91	1.00	
1,4-Dichlorobenzene	ND	26	1.1	1.00	
Dichlorodifluoromethane	ND	26	2.3	1.00	
1,1-Dichloroethane	ND	26	1.1	1.00	
1,2-Dichloroethane	ND	26	1.6	1.00	
1,1-Dichloroethene	ND	26	1.8	1.00	
c-1,2-Dichloroethene	ND	26	1.4	1.00	
t-1,2-Dichloroethene	ND	26	2.6	1.00	
1,2-Dichloropropane	ND	26	2.3	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
1,3-Dichloropropane	ND	26	1.3	1.00	
2,2-Dichloropropane	ND	26	1.7	1.00	
1,1-Dichloropropene	ND	26	1.7	1.00	
c-1,3-Dichloropropene	ND	26	1.3	1.00	
t-1,3-Dichloropropene	ND	26	3.1	1.00	
Ethylbenzene	ND	26	0.78	1.00	
2-Hexanone	ND	260	9.1	1.00	
Isopropylbenzene	ND	26	2.8	1.00	
p-Isopropyltoluene	ND	26	3.3	1.00	
Methylene Chloride	ND	260	6.9	1.00	
4-Methyl-2-Pentanone	ND	260	22	1.00	
Naphthalene	ND	260	4.2	1.00	
n-Propylbenzene	ND	26	2.6	1.00	
Styrene	ND	26	3.1	1.00	
1,1,1,2-Tetrachloroethane	ND	26	1.2	1.00	
1,1,2,2-Tetrachloroethane	ND	26	1.8	1.00	
Tetrachloroethene	ND	26	1.1	1.00	
Toluene	ND	26	2.7	1.00	
1,2,3-Trichlorobenzene	ND	52	4.7	1.00	
1,2,4-Trichlorobenzene	ND	26	1.6	1.00	
1,1,1-Trichloroethane	ND	26	1.2	1.00	
1,1,2-Trichloroethane	ND	26	1.8	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	260	1.8	1.00	
Trichloroethene	ND	26	1.6	1.00	
1,2,3-Trichloropropane	ND	26	4.3	1.00	
1,2,4-Trimethylbenzene	ND	26	3.0	1.00	
Trichlorofluoromethane	ND	260	1.9	1.00	
1,3,5-Trimethylbenzene	ND	26	2.8	1.00	
Vinyl Acetate	ND	260	25	1.00	
Vinyl Chloride	ND	26	2.6	1.00	
p/m-Xylene	ND	26	1.4	1.00	
o-Xylene	ND	26	2.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	26	1.5	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	60-132	
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	93	62-146	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM330	**15-06-0567-3-A**	**06/05/15 11:03**	**Solid**	**GC/MS Q**	**06/07/15**	**06/09/15 05:39**	**150608L054**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	160	7.9	1.00	
Benzene	ND	6.3	0.16	1.00	
Bromobenzene	ND	6.3	0.26	1.00	
Bromochloromethane	ND	6.3	0.87	1.00	
Bromodichloromethane	ND	6.3	0.29	1.00	
Bromoform	ND	6.3	1.0	1.00	
Bromomethane	ND	32	12	1.00	
2-Butanone	ND	63	4.8	1.00	
n-Butylbenzene	ND	6.3	0.20	1.00	
sec-Butylbenzene	ND	6.3	0.73	1.00	
tert-Butylbenzene	ND	6.3	0.19	1.00	
Carbon Disulfide	ND	63	0.39	1.00	
Carbon Tetrachloride	ND	6.3	0.36	1.00	
Chlorobenzene	ND	6.3	0.28	1.00	
Chloroethane	ND	6.3	1.9	1.00	
Chloroform	ND	6.3	0.30	1.00	
Chloromethane	ND	32	0.38	1.00	
2-Chlorotoluene	ND	6.3	0.29	1.00	
4-Chlorotoluene	ND	6.3	0.27	1.00	
Dibromochloromethane	ND	6.3	0.72	1.00	
1,2-Dibromo-3-Chloropropane	ND	13	2.2	1.00	
1,2-Dibromoethane	ND	6.3	0.32	1.00	
Dibromomethane	ND	6.3	0.98	1.00	
1,2-Dichlorobenzene	ND	6.3	0.29	1.00	
1,3-Dichlorobenzene	ND	6.3	0.22	1.00	
1,4-Dichlorobenzene	ND	6.3	0.28	1.00	
Dichlorodifluoromethane	ND	6.3	0.56	1.00	
1,1-Dichloroethane	ND	6.3	0.27	1.00	
1,2-Dichloroethane	ND	6.3	0.40	1.00	
1,1-Dichloroethene	ND	6.3	0.44	1.00	
c-1,2-Dichloroethene	ND	6.3	0.35	1.00	
t-1,2-Dichloroethene	ND	6.3	0.64	1.00	
1,2-Dichloropropane	ND	6.3	0.55	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Parameter	Result	RL	MDL	DF	Qualifiers
1,3-Dichloropropane	ND	6.3	0.32	1.00	
2,2-Dichloropropane	ND	6.3	0.42	1.00	
1,1-Dichloropropene	ND	6.3	0.41	1.00	
c-1,3-Dichloropropene	ND	6.3	0.32	1.00	
t-1,3-Dichloropropene	ND	6.3	0.77	1.00	
Ethylbenzene	ND	6.3	0.19	1.00	
2-Hexanone	ND	63	2.2	1.00	
Isopropylbenzene	ND	6.3	0.69	1.00	
p-Isopropyltoluene	ND	6.3	0.80	1.00	
Methylene Chloride	ND	63	1.7	1.00	
4-Methyl-2-Pentanone	ND	63	5.5	1.00	
Naphthalene	ND	63	1.0	1.00	
n-Propylbenzene	ND	6.3	0.63	1.00	
Styrene	ND	6.3	0.76	1.00	
1,1,1,2-Tetrachloroethane	ND	6.3	0.30	1.00	
1,1,2,2-Tetrachloroethane	ND	6.3	0.44	1.00	
Tetrachloroethene	ND	6.3	0.26	1.00	
Toluene	ND	6.3	0.65	1.00	
1,2,3-Trichlorobenzene	ND	13	1.2	1.00	
1,2,4-Trichlorobenzene	ND	6.3	0.39	1.00	
1,1,1-Trichloroethane	ND	6.3	0.28	1.00	
1,1,2-Trichloroethane	ND	6.3	0.45	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	63	0.44	1.00	
Trichloroethene	ND	6.3	0.38	1.00	
1,2,3-Trichloropropane	ND	6.3	1.0	1.00	
1,2,4-Trimethylbenzene	ND	6.3	0.74	1.00	
Trichlorofluoromethane	ND	63	0.47	1.00	
1,3,5-Trimethylbenzene	ND	6.3	0.69	1.00	
Vinyl Acetate	ND	63	6.0	1.00	
Vinyl Chloride	ND	6.3	0.64	1.00	
p/m-Xylene	ND	6.3	0.34	1.00	
o-Xylene	ND	6.3	0.70	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	6.3	0.37	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	60-132	
Dibromofluoromethane	96	63-141	
1,2-Dichloroethane-d4	90	62-146	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM340	**15-06-0567-4-A**	**06/05/15 11:21**	**Solid**	**GC/MS Q**	**06/07/15**	**06/09/15 06:05**	**150608L054**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	11	160	7.7	1.00	J
Benzene	ND	6.2	0.16	1.00	
Bromobenzene	ND	6.2	0.26	1.00	
Bromochloromethane	ND	6.2	0.86	1.00	
Bromodichloromethane	ND	6.2	0.29	1.00	
Bromoform	ND	6.2	0.99	1.00	
Bromomethane	ND	31	12	1.00	
2-Butanone	ND	62	4.7	1.00	
n-Butylbenzene	ND	6.2	0.19	1.00	
sec-Butylbenzene	ND	6.2	0.72	1.00	
tert-Butylbenzene	ND	6.2	0.19	1.00	
Carbon Disulfide	ND	62	0.38	1.00	
Carbon Tetrachloride	ND	6.2	0.35	1.00	
Chlorobenzene	ND	6.2	0.28	1.00	
Chloroethane	ND	6.2	1.9	1.00	
Chloroform	ND	6.2	0.30	1.00	
Chloromethane	ND	31	0.38	1.00	
2-Chlorotoluene	ND	6.2	0.29	1.00	
4-Chlorotoluene	ND	6.2	0.26	1.00	
Dibromochloromethane	ND	6.2	0.71	1.00	
1,2-Dibromo-3-Chloropropane	ND	12	2.2	1.00	
1,2-Dibromoethane	ND	6.2	0.32	1.00	
Dibromomethane	ND	6.2	0.96	1.00	
1,2-Dichlorobenzene	ND	6.2	0.28	1.00	
1,3-Dichlorobenzene	ND	6.2	0.22	1.00	
1,4-Dichlorobenzene	ND	6.2	0.28	1.00	
Dichlorodifluoromethane	ND	6.2	0.55	1.00	
1,1-Dichloroethane	ND	6.2	0.26	1.00	
1,2-Dichloroethane	ND	6.2	0.39	1.00	
1,1-Dichloroethene	ND	6.2	0.43	1.00	
c-1,2-Dichloroethene	ND	6.2	0.35	1.00	
t-1,2-Dichloroethene	ND	6.2	0.63	1.00	
1,2-Dichloropropane	ND	6.2	0.54	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Parameter	Result	RL	MDL	DF	Qualifiers
1,3-Dichloropropane	ND	6.2	0.31	1.00	
2,2-Dichloropropane	ND	6.2	0.41	1.00	
1,1-Dichloropropene	ND	6.2	0.41	1.00	
c-1,3-Dichloropropene	ND	6.2	0.32	1.00	
t-1,3-Dichloropropene	ND	6.2	0.75	1.00	
Ethylbenzene	ND	6.2	0.19	1.00	
2-Hexanone	ND	62	2.2	1.00	
Isopropylbenzene	ND	6.2	0.68	1.00	
p-Isopropyltoluene	ND	6.2	0.78	1.00	
Methylene Chloride	ND	62	1.7	1.00	
4-Methyl-2-Pentanone	ND	62	5.4	1.00	
Naphthalene	ND	62	1.0	1.00	
n-Propylbenzene	ND	6.2	0.62	1.00	
Styrene	ND	6.2	0.75	1.00	
1,1,1,2-Tetrachloroethane	ND	6.2	0.30	1.00	
1,1,2,2-Tetrachloroethane	ND	6.2	0.43	1.00	
Tetrachloroethene	ND	6.2	0.26	1.00	
Toluene	ND	6.2	0.64	1.00	
1,2,3-Trichlorobenzene	ND	12	1.1	1.00	
1,2,4-Trichlorobenzene	ND	6.2	0.39	1.00	
1,1,1-Trichloroethane	ND	6.2	0.28	1.00	
1,1,2-Trichloroethane	ND	6.2	0.44	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	62	0.44	1.00	
Trichloroethene	ND	6.2	0.37	1.00	
1,2,3-Trichloropropane	ND	6.2	1.0	1.00	
1,2,4-Trimethylbenzene	ND	6.2	0.73	1.00	
Trichlorofluoromethane	ND	62	0.47	1.00	
1,3,5-Trimethylbenzene	ND	6.2	0.68	1.00	
Vinyl Acetate	ND	62	5.9	1.00	
Vinyl Chloride	ND	6.2	0.62	1.00	
p/m-Xylene	ND	6.2	0.33	1.00	
o-Xylene	ND	6.2	0.69	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	6.2	0.37	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	60-132	
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	92	62-146	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM350	**15-06-0567-5-A**	**06/05/15 12:24**	**Solid**	**GC/MS Q**	**06/07/15**	**06/09/15 06:32**	**150608L054**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	270	14	1.00	
Benzene	ND	11	0.28	1.00	
Bromobenzene	ND	11	0.46	1.00	
Bromochloromethane	ND	11	1.5	1.00	
Bromodichloromethane	ND	11	0.51	1.00	
Bromoform	ND	11	1.7	1.00	
Bromomethane	ND	54	21	1.00	
2-Butanone	ND	110	8.2	1.00	
n-Butylbenzene	ND	11	0.34	1.00	
sec-Butylbenzene	ND	11	1.3	1.00	
tert-Butylbenzene	ND	11	0.33	1.00	
Carbon Disulfide	ND	110	0.67	1.00	
Carbon Tetrachloride	ND	11	0.62	1.00	
Chlorobenzene	ND	11	0.49	1.00	
Chloroethane	ND	11	3.3	1.00	
Chloroform	ND	11	0.52	1.00	
Chloromethane	ND	54	0.66	1.00	
2-Chlorotoluene	ND	11	0.50	1.00	
4-Chlorotoluene	ND	11	0.46	1.00	
Dibromochloromethane	ND	11	1.2	1.00	
1,2-Dibromo-3-Chloropropane	ND	22	3.8	1.00	
1,2-Dibromoethane	ND	11	0.56	1.00	
Dibromomethane	ND	11	1.7	1.00	
1,2-Dichlorobenzene	ND	11	0.50	1.00	
1,3-Dichlorobenzene	ND	11	0.38	1.00	
1,4-Dichlorobenzene	ND	11	0.48	1.00	
Dichlorodifluoromethane	ND	11	0.97	1.00	
1,1-Dichloroethane	ND	11	0.46	1.00	
1,2-Dichloroethane	ND	11	0.68	1.00	
1,1-Dichloroethene	ND	11	0.75	1.00	
c-1,2-Dichloroethene	ND	11	0.61	1.00	
t-1,2-Dichloroethene	ND	11	1.1	1.00	
1,2-Dichloropropane	ND	11	0.95	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
1,3-Dichloropropane	ND	11	0.55	1.00	
2,2-Dichloropropane	ND	11	0.72	1.00	
1,1-Dichloropropene	ND	11	0.72	1.00	
c-1,3-Dichloropropene	ND	11	0.55	1.00	
t-1,3-Dichloropropene	ND	11	1.3	1.00	
Ethylbenzene	ND	11	0.33	1.00	
2-Hexanone	ND	110	3.8	1.00	
Isopropylbenzene	ND	11	1.2	1.00	
p-Isopropyltoluene	ND	11	1.4	1.00	
Methylene Chloride	ND	110	2.9	1.00	
4-Methyl-2-Pentanone	ND	110	9.4	1.00	
Naphthalene	ND	110	1.8	1.00	
n-Propylbenzene	ND	11	1.1	1.00	
Styrene	ND	11	1.3	1.00	
1,1,1,2-Tetrachloroethane	ND	11	0.52	1.00	
1,1,2,2-Tetrachloroethane	ND	11	0.75	1.00	
Tetrachloroethene	ND	11	0.46	1.00	
Toluene	ND	11	1.1	1.00	
1,2,3-Trichlorobenzene	ND	22	2.0	1.00	
1,2,4-Trichlorobenzene	ND	11	0.68	1.00	
1,1,1-Trichloroethane	ND	11	0.49	1.00	
1,1,2-Trichloroethane	ND	11	0.77	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	110	0.77	1.00	
Trichloroethene	ND	11	0.65	1.00	
1,2,3-Trichloropropane	ND	11	1.8	1.00	
1,2,4-Trimethylbenzene	ND	11	1.3	1.00	
Trichlorofluoromethane	ND	110	0.82	1.00	
1,3,5-Trimethylbenzene	ND	11	1.2	1.00	
Vinyl Acetate	ND	110	10	1.00	
Vinyl Chloride	ND	11	1.1	1.00	
p/m-Xylene	ND	11	0.58	1.00	
o-Xylene	ND	11	1.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	11	0.64	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	60-132	
Dibromofluoromethane	98	63-141	
1,2-Dichloroethane-d4	95	62-146	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM360	**15-06-0567-6-A**	**06/05/15 13:13**	**Solid**	**GC/MS Q**	**06/07/15**	**06/09/15 06:58**	**150608L054**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	170	8.6	1.00	
Benzene	ND	6.9	0.18	1.00	
Bromobenzene	ND	6.9	0.29	1.00	
Bromochloromethane	ND	6.9	0.95	1.00	
Bromodichloromethane	ND	6.9	0.32	1.00	
Bromoform	ND	6.9	1.1	1.00	
Bromomethane	ND	34	13	1.00	
2-Butanone	ND	69	5.2	1.00	
n-Butylbenzene	ND	6.9	0.22	1.00	
sec-Butylbenzene	ND	6.9	0.80	1.00	
tert-Butylbenzene	ND	6.9	0.21	1.00	
Carbon Disulfide	ND	69	0.42	1.00	
Carbon Tetrachloride	ND	6.9	0.39	1.00	
Chlorobenzene	ND	6.9	0.31	1.00	
Chloroethane	ND	6.9	2.1	1.00	
Chloroform	ND	6.9	0.33	1.00	
Chloromethane	ND	34	0.42	1.00	
2-Chlorotoluene	ND	6.9	0.32	1.00	
4-Chlorotoluene	ND	6.9	0.29	1.00	
Dibromochloromethane	ND	6.9	0.79	1.00	
1,2-Dibromo-3-Chloropropane	ND	14	2.4	1.00	
1,2-Dibromoethane	ND	6.9	0.35	1.00	
Dibromomethane	ND	6.9	1.1	1.00	
1,2-Dichlorobenzene	ND	6.9	0.32	1.00	
1,3-Dichlorobenzene	ND	6.9	0.24	1.00	
1,4-Dichlorobenzene	ND	6.9	0.31	1.00	
Dichlorodifluoromethane	ND	6.9	0.61	1.00	
1,1-Dichloroethane	ND	6.9	0.29	1.00	
1,2-Dichloroethane	ND	6.9	0.43	1.00	
1,1-Dichloroethene	ND	6.9	0.48	1.00	
c-1,2-Dichloroethene	ND	6.9	0.39	1.00	
t-1,2-Dichloroethene	ND	6.9	0.70	1.00	
1,2-Dichloropropane	ND	6.9	0.60	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
1,3-Dichloropropane	ND	6.9	0.35	1.00	
2,2-Dichloropropane	ND	6.9	0.46	1.00	
1,1-Dichloropropene	ND	6.9	0.45	1.00	
c-1,3-Dichloropropene	ND	6.9	0.35	1.00	
t-1,3-Dichloropropene	ND	6.9	0.83	1.00	
Ethylbenzene	ND	6.9	0.21	1.00	
2-Hexanone	ND	69	2.4	1.00	
Isopropylbenzene	ND	6.9	0.75	1.00	
p-Isopropyltoluene	ND	6.9	0.87	1.00	
Methylene Chloride	ND	69	1.8	1.00	
4-Methyl-2-Pentanone	ND	69	6.0	1.00	
Naphthalene	ND	69	1.1	1.00	
n-Propylbenzene	ND	6.9	0.69	1.00	
Styrene	ND	6.9	0.83	1.00	
1,1,1,2-Tetrachloroethane	ND	6.9	0.33	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	0.48	1.00	
Tetrachloroethene	ND	6.9	0.29	1.00	
Toluene	ND	6.9	0.71	1.00	
1,2,3-Trichlorobenzene	ND	14	1.3	1.00	
1,2,4-Trichlorobenzene	ND	6.9	0.43	1.00	
1,1,1-Trichloroethane	ND	6.9	0.31	1.00	
1,1,2-Trichloroethane	ND	6.9	0.49	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	69	0.48	1.00	
Trichloroethene	ND	6.9	0.41	1.00	
1,2,3-Trichloropropane	ND	6.9	1.1	1.00	
1,2,4-Trimethylbenzene	ND	6.9	0.81	1.00	
Trichlorofluoromethane	ND	69	0.52	1.00	
1,3,5-Trimethylbenzene	ND	6.9	0.76	1.00	
Vinyl Acetate	ND	69	6.5	1.00	
Vinyl Chloride	ND	6.9	0.69	1.00	
p/m-Xylene	ND	6.9	0.37	1.00	
o-Xylene	ND	6.9	0.77	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	6.9	0.41	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	60-132	
Dibromofluoromethane	96	63-141	
1,2-Dichloroethane-d4	91	62-146	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM370	**15-06-0567-7-A**	**06/05/15 13:51**	**Solid**	**GC/MS Q**	**06/07/15**	**06/09/15 07:25**	**150608L054**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	14	220	11	1.00	J
Benzene	ND	8.7	0.23	1.00	
Bromobenzene	ND	8.7	0.36	1.00	
Bromochloromethane	ND	8.7	1.2	1.00	
Bromodichloromethane	ND	8.7	0.40	1.00	
Bromoform	ND	8.7	1.4	1.00	
Bromomethane	ND	43	16	1.00	
2-Butanone	ND	87	6.5	1.00	
n-Butylbenzene	ND	8.7	0.27	1.00	
sec-Butylbenzene	ND	8.7	1.0	1.00	
tert-Butylbenzene	ND	8.7	0.26	1.00	
Carbon Disulfide	ND	87	0.53	1.00	
Carbon Tetrachloride	ND	8.7	0.49	1.00	
Chlorobenzene	ND	8.7	0.39	1.00	
Chloroethane	ND	8.7	2.6	1.00	
Chloroform	ND	8.7	0.41	1.00	
Chloromethane	ND	43	0.53	1.00	
2-Chlorotoluene	ND	8.7	0.40	1.00	
4-Chlorotoluene	ND	8.7	0.37	1.00	
Dibromochloromethane	ND	8.7	0.99	1.00	
1,2-Dibromo-3-Chloropropane	ND	17	3.0	1.00	
1,2-Dibromoethane	ND	8.7	0.44	1.00	
Dibromomethane	ND	8.7	1.3	1.00	
1,2-Dichlorobenzene	ND	8.7	0.40	1.00	
1,3-Dichlorobenzene	ND	8.7	0.31	1.00	
1,4-Dichlorobenzene	ND	8.7	0.39	1.00	
Dichlorodifluoromethane	ND	8.7	0.77	1.00	
1,1-Dichloroethane	ND	8.7	0.37	1.00	
1,2-Dichloroethane	ND	8.7	0.54	1.00	
1,1-Dichloroethene	ND	8.7	0.60	1.00	
c-1,2-Dichloroethene	ND	8.7	0.49	1.00	
t-1,2-Dichloroethene	ND	8.7	0.88	1.00	
1,2-Dichloropropane	ND	8.7	0.76	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
1,3-Dichloropropane	ND	8.7	0.44	1.00	
2,2-Dichloropropane	ND	8.7	0.57	1.00	
1,1-Dichloropropene	ND	8.7	0.57	1.00	
c-1,3-Dichloropropene	ND	8.7	0.44	1.00	
t-1,3-Dichloropropene	ND	8.7	1.1	1.00	
Ethylbenzene	ND	8.7	0.26	1.00	
2-Hexanone	ND	87	3.1	1.00	
Isopropylbenzene	ND	8.7	0.95	1.00	
p-Isopropyltoluene	ND	8.7	1.1	1.00	
Methylene Chloride	ND	87	2.3	1.00	
4-Methyl-2-Pentanone	ND	87	7.5	1.00	
Naphthalene	ND	87	1.4	1.00	
n-Propylbenzene	ND	8.7	0.87	1.00	
Styrene	ND	8.7	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	8.7	0.42	1.00	
1,1,2,2-Tetrachloroethane	ND	8.7	0.60	1.00	
Tetrachloroethene	ND	8.7	0.36	1.00	
Toluene	ND	8.7	0.89	1.00	
1,2,3-Trichlorobenzene	ND	17	1.6	1.00	
1,2,4-Trichlorobenzene	ND	8.7	0.54	1.00	
1,1,1-Trichloroethane	ND	8.7	0.39	1.00	
1,1,2-Trichloroethane	ND	8.7	0.61	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	87	0.61	1.00	
Trichloroethene	ND	8.7	0.52	1.00	
1,2,3-Trichloropropane	ND	8.7	1.4	1.00	
1,2,4-Trimethylbenzene	ND	8.7	1.0	1.00	
Trichlorofluoromethane	ND	87	0.65	1.00	
1,3,5-Trimethylbenzene	ND	8.7	0.95	1.00	
Vinyl Acetate	ND	87	8.2	1.00	
Vinyl Chloride	ND	8.7	0.87	1.00	
p/m-Xylene	ND	8.7	0.46	1.00	
o-Xylene	ND	8.7	0.96	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	8.7	0.51	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	60-132	
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	92	62-146	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM370	**15-06-0567-8-A**	**06/05/15 13:51**	**Solid**	**GC/MS Q**	**06/07/15**	**06/09/15 07:51**	**150608L054**

Comment(s): - Results are reported on a dry weight basis.
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	240	12	1.00	
Benzene	ND	9.4	0.24	1.00	
Bromobenzene	ND	9.4	0.39	1.00	
Bromochloromethane	ND	9.4	1.3	1.00	
Bromodichloromethane	ND	9.4	0.44	1.00	
Bromoform	ND	9.4	1.5	1.00	
Bromomethane	ND	47	18	1.00	
2-Butanone	ND	94	7.1	1.00	
n-Butylbenzene	ND	9.4	0.29	1.00	
sec-Butylbenzene	ND	9.4	1.1	1.00	
tert-Butylbenzene	ND	9.4	0.28	1.00	
Carbon Disulfide	ND	94	0.58	1.00	
Carbon Tetrachloride	ND	9.4	0.53	1.00	
Chlorobenzene	ND	9.4	0.42	1.00	
Chloroethane	ND	9.4	2.8	1.00	
Chloroform	ND	9.4	0.45	1.00	
Chloromethane	ND	47	0.57	1.00	
2-Chlorotoluene	ND	9.4	0.44	1.00	
4-Chlorotoluene	ND	9.4	0.40	1.00	
Dibromochloromethane	ND	9.4	1.1	1.00	
1,2-Dibromo-3-Chloropropane	ND	19	3.3	1.00	
1,2-Dibromoethane	ND	9.4	0.48	1.00	
Dibromomethane	ND	9.4	1.5	1.00	
1,2-Dichlorobenzene	ND	9.4	0.43	1.00	
1,3-Dichlorobenzene	ND	9.4	0.33	1.00	
1,4-Dichlorobenzene	ND	9.4	0.42	1.00	
Dichlorodifluoromethane	ND	9.4	0.84	1.00	
1,1-Dichloroethane	ND	9.4	0.40	1.00	
1,2-Dichloroethane	ND	9.4	0.59	1.00	
1,1-Dichloroethene	ND	9.4	0.65	1.00	
c-1,2-Dichloroethene	ND	9.4	0.53	1.00	
t-1,2-Dichloroethene	ND	9.4	0.95	1.00	
1,2-Dichloropropane	ND	9.4	0.83	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
1,3-Dichloropropane	ND	9.4	0.48	1.00	
2,2-Dichloropropane	ND	9.4	0.62	1.00	
1,1-Dichloropropene	ND	9.4	0.62	1.00	
c-1,3-Dichloropropene	ND	9.4	0.48	1.00	
t-1,3-Dichloropropene	ND	9.4	1.1	1.00	
Ethylbenzene	ND	9.4	0.29	1.00	
2-Hexanone	ND	94	3.3	1.00	
Isopropylbenzene	ND	9.4	1.0	1.00	
p-Isopropyltoluene	1.4	9.4	1.2	1.00	J
Methylene Chloride	ND	94	2.5	1.00	
4-Methyl-2-Pentanone	ND	94	8.1	1.00	
Naphthalene	ND	94	1.5	1.00	
n-Propylbenzene	ND	9.4	0.94	1.00	
Styrene	ND	9.4	1.1	1.00	
1,1,1,2-Tetrachloroethane	ND	9.4	0.45	1.00	
1,1,2,2-Tetrachloroethane	ND	9.4	0.65	1.00	
Tetrachloroethene	ND	9.4	0.40	1.00	
Toluene	2.2	9.4	0.97	1.00	J
1,2,3-Trichlorobenzene	ND	19	1.7	1.00	
1,2,4-Trichlorobenzene	ND	9.4	0.58	1.00	
1,1,1-Trichloroethane	ND	9.4	0.42	1.00	
1,1,2-Trichloroethane	ND	9.4	0.67	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	94	0.66	1.00	
Trichloroethene	ND	9.4	0.57	1.00	
1,2,3-Trichloropropane	ND	9.4	1.6	1.00	
1,2,4-Trimethylbenzene	ND	9.4	1.1	1.00	
Trichlorofluoromethane	ND	94	0.71	1.00	
1,3,5-Trimethylbenzene	ND	9.4	1.0	1.00	
Vinyl Acetate	ND	94	8.9	1.00	
Vinyl Chloride	ND	9.4	0.95	1.00	
p/m-Xylene	ND	9.4	0.50	1.00	
o-Xylene	ND	9.4	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	9.4	0.56	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	60-132	
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	93	62-146	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-9792**	**N/A**	**Solid**	**GC/MS BB**	**06/08/15**	**06/09/15 00:32**	**150608L032**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	120	6.2	1.00	
Benzene	ND	5.0	0.13	1.00	
Bromobenzene	ND	5.0	0.21	1.00	
Bromochloromethane	ND	5.0	0.69	1.00	
Bromodichloromethane	ND	5.0	0.23	1.00	
Bromoform	ND	5.0	0.79	1.00	
Bromomethane	ND	25	9.4	1.00	
2-Butanone	ND	50	3.8	1.00	
n-Butylbenzene	ND	5.0	0.16	1.00	
sec-Butylbenzene	ND	5.0	0.58	1.00	
tert-Butylbenzene	ND	5.0	0.15	1.00	
Carbon Disulfide	ND	50	0.31	1.00	
Carbon Tetrachloride	ND	5.0	0.28	1.00	
Chlorobenzene	ND	5.0	0.22	1.00	
Chloroethane	ND	5.0	1.5	1.00	
Chloroform	ND	5.0	0.24	1.00	
Chloromethane	ND	25	0.30	1.00	
2-Chlorotoluene	ND	5.0	0.23	1.00	
4-Chlorotoluene	ND	5.0	0.21	1.00	
Dibromochloromethane	ND	5.0	0.57	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.7	1.00	
1,2-Dibromoethane	ND	5.0	0.26	1.00	
Dibromomethane	ND	5.0	0.77	1.00	
1,2-Dichlorobenzene	ND	5.0	0.23	1.00	
1,3-Dichlorobenzene	ND	5.0	0.18	1.00	
1,4-Dichlorobenzene	ND	5.0	0.22	1.00	
Dichlorodifluoromethane	ND	5.0	0.44	1.00	
1,1-Dichloroethane	ND	5.0	0.21	1.00	
1,2-Dichloroethane	ND	5.0	0.31	1.00	
1,1-Dichloroethene	ND	5.0	0.35	1.00	
c-1,2-Dichloroethene	ND	5.0	0.28	1.00	
t-1,2-Dichloroethene	ND	5.0	0.51	1.00	
1,2-Dichloropropane	ND	5.0	0.44	1.00	
1,3-Dichloropropane	ND	5.0	0.25	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	5.0	0.33	1.00	
1,1-Dichloropropene	ND	5.0	0.33	1.00	
c-1,3-Dichloropropene	ND	5.0	0.25	1.00	
t-1,3-Dichloropropene	ND	5.0	0.61	1.00	
Ethylbenzene	ND	5.0	0.15	1.00	
2-Hexanone	ND	50	1.8	1.00	
Isopropylbenzene	ND	5.0	0.55	1.00	
p-Isopropyltoluene	ND	5.0	0.63	1.00	
Methylene Chloride	ND	50	1.3	1.00	
4-Methyl-2-Pentanone	ND	50	4.3	1.00	
Naphthalene	ND	50	0.81	1.00	
n-Propylbenzene	ND	5.0	0.50	1.00	
Styrene	ND	5.0	0.60	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	0.35	1.00	
Tetrachloroethene	ND	5.0	0.21	1.00	
Toluene	ND	5.0	0.52	1.00	
1,2,3-Trichlorobenzene	ND	10	0.91	1.00	
1,2,4-Trichlorobenzene	ND	5.0	0.31	1.00	
1,1,1-Trichloroethane	ND	5.0	0.23	1.00	
1,1,2-Trichloroethane	ND	5.0	0.35	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	0.35	1.00	
Trichloroethene	ND	5.0	0.30	1.00	
1,2,3-Trichloropropane	ND	5.0	0.83	1.00	
1,2,4-Trimethylbenzene	ND	5.0	0.59	1.00	
Trichlorofluoromethane	ND	50	0.38	1.00	
1,3,5-Trimethylbenzene	ND	5.0	0.55	1.00	
Vinyl Acetate	ND	50	4.7	1.00	
Vinyl Chloride	ND	5.0	0.50	1.00	
p/m-Xylene	ND	5.0	0.27	1.00	
o-Xylene	ND	5.0	0.56	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	0.30	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	60-132	
Dibromofluoromethane	105	63-141	
1,2-Dichloroethane-d4	110	62-146	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-9818**	**N/A**	**Solid**	**GC/MS Q**	**06/08/15**	**06/09/15 02:06**	**150608L054**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	120	6.2	1.00	
Benzene	ND	5.0	0.13	1.00	
Bromobenzene	ND	5.0	0.21	1.00	
Bromochloromethane	ND	5.0	0.69	1.00	
Bromodichloromethane	ND	5.0	0.23	1.00	
Bromoform	ND	5.0	0.79	1.00	
Bromomethane	ND	25	9.4	1.00	
2-Butanone	ND	50	3.8	1.00	
n-Butylbenzene	ND	5.0	0.16	1.00	
sec-Butylbenzene	ND	5.0	0.58	1.00	
tert-Butylbenzene	ND	5.0	0.15	1.00	
Carbon Disulfide	ND	50	0.31	1.00	
Carbon Tetrachloride	ND	5.0	0.28	1.00	
Chlorobenzene	ND	5.0	0.22	1.00	
Chloroethane	ND	5.0	1.5	1.00	
Chloroform	ND	5.0	0.24	1.00	
Chloromethane	ND	25	0.30	1.00	
2-Chlorotoluene	ND	5.0	0.23	1.00	
4-Chlorotoluene	ND	5.0	0.21	1.00	
Dibromochloromethane	ND	5.0	0.57	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.7	1.00	
1,2-Dibromoethane	ND	5.0	0.26	1.00	
Dibromomethane	ND	5.0	0.77	1.00	
1,2-Dichlorobenzene	ND	5.0	0.23	1.00	
1,3-Dichlorobenzene	ND	5.0	0.18	1.00	
1,4-Dichlorobenzene	ND	5.0	0.22	1.00	
Dichlorodifluoromethane	ND	5.0	0.44	1.00	
1,1-Dichloroethane	ND	5.0	0.21	1.00	
1,2-Dichloroethane	ND	5.0	0.31	1.00	
1,1-Dichloroethene	ND	5.0	0.35	1.00	
c-1,2-Dichloroethene	ND	5.0	0.28	1.00	
t-1,2-Dichloroethene	ND	5.0	0.51	1.00	
1,2-Dichloropropane	ND	5.0	0.44	1.00	
1,3-Dichloropropane	ND	5.0	0.25	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	5.0	0.33	1.00	
1,1-Dichloropropene	ND	5.0	0.33	1.00	
c-1,3-Dichloropropene	ND	5.0	0.25	1.00	
t-1,3-Dichloropropene	ND	5.0	0.61	1.00	
Ethylbenzene	ND	5.0	0.15	1.00	
2-Hexanone	ND	50	1.8	1.00	
Isopropylbenzene	ND	5.0	0.55	1.00	
p-Isopropyltoluene	ND	5.0	0.63	1.00	
Methylene Chloride	ND	50	1.3	1.00	
4-Methyl-2-Pentanone	ND	50	4.3	1.00	
Naphthalene	ND	50	0.81	1.00	
n-Propylbenzene	ND	5.0	0.50	1.00	
Styrene	ND	5.0	0.60	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	0.35	1.00	
Tetrachloroethene	ND	5.0	0.21	1.00	
Toluene	ND	5.0	0.52	1.00	
1,2,3-Trichlorobenzene	ND	10	0.91	1.00	
1,2,4-Trichlorobenzene	ND	5.0	0.31	1.00	
1,1,1-Trichloroethane	ND	5.0	0.23	1.00	
1,1,2-Trichloroethane	ND	5.0	0.35	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	0.35	1.00	
Trichloroethene	ND	5.0	0.30	1.00	
1,2,3-Trichloropropane	ND	5.0	0.83	1.00	
1,2,4-Trimethylbenzene	ND	5.0	0.59	1.00	
Trichlorofluoromethane	ND	50	0.38	1.00	
1,3,5-Trimethylbenzene	ND	5.0	0.55	1.00	
Vinyl Acetate	ND	50	4.7	1.00	
Vinyl Chloride	ND	5.0	0.50	1.00	
p/m-Xylene	ND	5.0	0.27	1.00	
o-Xylene	ND	5.0	0.56	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	0.30	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	60-132	
Dibromofluoromethane	95	63-141	
1,2-Dichloroethane-d4	94	62-146	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM310	**15-06-0567-1**	**06/05/15 10:03**	**Solid**

Comment(s): (9) - Results are reported on a dry weight basis.
(24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	71.3	0.100		1.00		%	06/08/15	06/08/15	ASTM D-2216 (M)
pH	7.71	0.01		1.00		pH units	06/06/15	06/06/15	EPA 9045D
Carbon, Total Organic (9, 24)	55000	1700	420	1.00		mg/kg	06/15/15	06/15/15	EPA 9060A
Alkalinity, Total (as CaCO3) (24)	430	5.0	3.2	1.00		mg/kg	N/A	06/15/15	SM 2320B M
Bicarbonate (as CaCO3) (24)	430	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Carbonate (as CaCO3) (24)	ND	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Solids, Total Dissolved (24)	1400	10.0	1.00	1.00		mg/kg	06/16/15	06/16/15	SM 2540 C (M)
Phosphorus, Total (9, 24)	23	3.5	0.82	2.00		mg/kg	06/10/15	06/11/15	SM 4500 P B/E (M)

HSM320	**15-06-0567-2**	**06/05/15 10:48**	**Solid**

Comment(s): (9) - Results are reported on a dry weight basis.
(24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	80.4	0.100		1.00		%	06/08/15	06/08/15	ASTM D-2216 (M)
pH	7.51	0.01		1.00		pH units	06/06/15	06/06/15	EPA 9045D
Carbon, Total Organic (9, 24)	110000	2600	620	1.00		mg/kg	06/15/15	06/15/15	EPA 9060A
Alkalinity, Total (as CaCO3) (24)	520	5.0	3.2	1.00		mg/kg	N/A	06/15/15	SM 2320B M
Bicarbonate (as CaCO3) (24)	520	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Carbonate (as CaCO3) (24)	ND	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Solids, Total Dissolved (24)	2260	10.0	1.00	1.00		mg/kg	06/16/15	06/16/15	SM 2540 C (M)
Phosphorus, Total (9, 24)	200	51	12	20.0		mg/kg	06/10/15	06/11/15	SM 4500 P B/E (M)

HSM330	**15-06-0567-3**	**06/05/15 11:03**	**Solid**

Comment(s): (9) - Results are reported on a dry weight basis.
(24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	20.5	0.100		1.00		%	06/08/15	06/08/15	ASTM D-2216 (M)
pH	8.14	0.01		1.00		pH units	06/06/15	06/06/15	EPA 9045D
Carbon, Total Organic (9, 24)	10000	630	150	1.00		mg/kg	06/15/15	06/15/15	EPA 9060A
Alkalinity, Total (as CaCO3) (24)	300	5.0	3.2	1.00		mg/kg	N/A	06/15/15	SM 2320B M
Bicarbonate (as CaCO3) (24)	300	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Carbonate (as CaCO3) (24)	ND	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Solids, Total Dissolved (24)	6490	10.0	1.00	1.00		mg/kg	06/16/15	06/16/15	SM 2540 C (M)
Phosphorus, Total (9, 24)	3.1	0.63	0.15	1.00		mg/kg	06/10/15	06/11/15	SM 4500 P B/E (M)

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM340	**15-06-0567-4**	**06/05/15 11:21**	**Solid**

Comment(s): (9) - Results are reported on a dry weight basis.
(24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	19.8	0.100		1.00		%	06/08/15	06/08/15	ASTM D-2216 (M)
pH	7.53	0.01		1.00		pH units	06/06/15	06/06/15	EPA 9045D
Carbon, Total Organic (9, 24)	14000	620	150	1.00		mg/kg	06/15/15	06/15/15	EPA 9060A
Alkalinity, Total (as CaCO3) (24)	390	5.0	3.2	1.00		mg/kg	N/A	06/15/15	SM 2320B M
Bicarbonate (as CaCO3) (24)	390	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Carbonate (as CaCO3) (24)	ND	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Solids, Total Dissolved (24)	2780	10.0	1.00	1.00		mg/kg	06/16/15	06/16/15	SM 2540 C (M)
Phosphorus, Total (9, 24)	0.84	0.62	0.15	1.00		mg/kg	06/10/15	06/11/15	SM 4500 P B/E (M)

HSM350	**15-06-0567-5**	**06/05/15 12:24**	**Solid**

Comment(s): (9) - Results are reported on a dry weight basis.
(24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	54.1	0.100		1.00		%	06/08/15	06/08/15	ASTM D-2216 (M)
pH	7.32	0.01		1.00		pH units	06/06/15	06/06/15	EPA 9045D
Carbon, Total Organic (9, 24)	59000	1100	260	1.00		mg/kg	06/15/15	06/15/15	EPA 9060A
Alkalinity, Total (as CaCO3) (24)	640	5.0	3.2	1.00		mg/kg	N/A	06/15/15	SM 2320B M
Bicarbonate (as CaCO3) (24)	640	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Carbonate (as CaCO3) (24)	ND	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Solids, Total Dissolved (24)	2090	10.0	1.00	1.00		mg/kg	06/16/15	06/16/15	SM 2540 C (M)
Phosphorus, Total (9, 24)	4.8	1.1	0.26	1.00		mg/kg	06/10/15	06/11/15	SM 4500 P B/E (M)

HSM360	**15-06-0567-6**	**06/05/15 13:13**	**Solid**

Comment(s): (9) - Results are reported on a dry weight basis.
(24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	25.5	0.100		1.00		%	06/08/15	06/08/15	ASTM D-2216 (M)
pH	7.71	0.01		1.00		pH units	06/06/15	06/06/15	EPA 9045D
Carbon, Total Organic (9, 24)	8700	670	160	1.00		mg/kg	06/15/15	06/15/15	EPA 9060A
Alkalinity, Total (as CaCO3) (24)	400	5.0	3.2	1.00		mg/kg	N/A	06/15/15	SM 2320B M
Bicarbonate (as CaCO3) (24)	400	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Carbonate (as CaCO3) (24)	ND	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Solids, Total Dissolved (24)	9140	10.0	1.00	1.00		mg/kg	06/16/15	06/16/15	SM 2540 C (M)
Phosphorus, Total (9, 24)	2.0	0.67	0.16	1.00		mg/kg	06/10/15	06/11/15	SM 4500 P B/E (M)

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM370	**15-06-0567-7**	**06/05/15 13:51**	**Solid**

Comment(s): (9) - Results are reported on a dry weight basis.
(24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(306) - Please see Work Order Narrative, additional comments section.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	41.5	0.100		1.00		%	06/08/15	06/08/15	ASTM D-2216 (M)
pH	7.46	0.01		1.00		pH units	06/06/15	06/06/15	EPA 9045D
Carbon, Total Organic (9, 24, 306)	25000	850	210	1.00		mg/kg	06/15/15	06/15/15	EPA 9060A
Alkalinity, Total (as CaCO3) (24)	440	5.0	3.2	1.00		mg/kg	N/A	06/15/15	SM 2320B M
Bicarbonate (as CaCO3) (24)	440	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Carbonate (as CaCO3) (24)	ND	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Solids, Total Dissolved (24)	5500	10.0	1.00	1.00		mg/kg	06/16/15	06/16/15	SM 2540 C (M)
Phosphorus, Total (9, 24)	3.1	0.85	0.20	1.00		mg/kg	06/10/15	06/11/15	SM 4500 P B/E (M)

FDHSM370	**15-06-0567-8**	**06/05/15 13:51**	**Solid**

Comment(s): (9) - Results are reported on a dry weight basis.
(24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(306) - Please see Work Order Narrative, additional comments section.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	45.7	0.100		1.00		%	06/08/15	06/08/15	ASTM D-2216 (M)
pH	7.49	0.01		1.00		pH units	06/06/15	06/06/15	EPA 9045D
Carbon, Total Organic (9, 24, 306)	22000	920	220	1.00		mg/kg	06/15/15	06/15/15	EPA 9060A
Alkalinity, Total (as CaCO3) (24)	360	5.0	3.2	1.00		mg/kg	N/A	06/15/15	SM 2320B M
Bicarbonate (as CaCO3) (24)	360	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Carbonate (as CaCO3) (24)	ND	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Solids, Total Dissolved (24)	7660	10.0	1.00	1.00		mg/kg	06/16/15	06/16/15	SM 2540 C (M)
Phosphorus, Total (9, 24)	3.5	0.92	0.22	1.00		mg/kg	06/10/15	06/11/15	SM 4500 P B/E (M)

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
EB01	**15-06-0567-10**	**06/05/15 15:41**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	06/13/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	06/11/15	SM 2320B
Bicarbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	06/11/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	06/11/15	SM 2320B
Solids, Total Dissolved (24)	ND	0	0.870	1.00		mg/L	06/11/15	06/11/15	SM 2540 C
pH	7.69	0.01		1.00	BV,BU	pH units	N/A	06/06/15	SM 4500 H+ B
Carbon, Total Organic (24)	0.55	0.50	0.24	1.00		mg/L	06/19/15	06/19/15	SM 5310 B

Method Blank							**N/A**		**Solid**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	ND	0.100		1.00		%	06/08/15	06/08/15	ASTM D-2216 (M)
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	06/13/15	EPA 365.1
Carbon, Total Organic (24)	ND	500	120	1.00		mg/kg	06/15/15	06/15/15	EPA 9060A
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	06/11/15	SM 2320B
Bicarbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	06/11/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	06/11/15	SM 2320B
Alkalinity, Total (as CaCO3) (24)	ND	5.0	3.2	1.00		mg/kg	N/A	06/15/15	SM 2320B M
Bicarbonate (as CaCO3) (24)	ND	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Carbonate (as CaCO3) (24)	ND	5.0	4.2	1.00		mg/kg	06/15/15	06/15/15	SM 2320B M
Solids, Total Dissolved (24)	ND	1.0	0.87	1.00		mg/L	06/11/15	06/11/15	SM 2540 C
Solids, Total Dissolved (24)	ND	1.0	1.0	1.00		mg/kg	06/16/15	06/16/15	SM 2540 C (M)
Phosphorus, Total (24)	ND	0.50	0.12	1.00		mg/kg	06/10/15	06/11/15	SM 4500 P B/E (M)
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	06/19/15	06/19/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: EPA 300.0

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0570-2	**Sample**	**Aqueous**	**IC 7**	**N/A**	**06/06/15 12:37**	**150606S01**
15-06-0570-2	**Matrix Spike**	**Aqueous**	**IC 7**	**N/A**	**06/06/15 13:43**	**150606S01**
15-06-0570-2	**Matrix Spike Duplicate**	**Aqueous**	**IC 7**	**N/A**	**06/06/15 13:59**	**150606S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Fluoride	0.6360	250.0	259.8	104	258.0	103	80-120	1	0-20	
Chloride	40.36	5000	4867	97	4867	97	80-120	0	0-20	
Bromide	ND	500.0	478.0	96	475.1	95	80-120	1	0-20	
Nitrate (as N)	ND	500.0	486.3	97	486.2	97	80-120	0	0-20	
Sulfate	89.02	5000	4968	98	4979	98	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: EPA 300.0

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0536-1	**Sample**	**Solid**	**IC 10**	**06/09/15**	**06/09/15 14:26**	**150609S01P**
15-06-0536-1	**Matrix Spike**	**Solid**	**IC 10**	**06/09/15**	**06/09/15 16:37**	**150609S01P**
15-06-0536-1	**Matrix Spike Duplicate**	**Solid**	**IC 10**	**06/09/15**	**06/09/15 16:54**	**150609S01P**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Fluoride	1.260	25.00	23.80	90	24.02	91	80-120	1	0-20	
Chloride	ND	500.0	539.0	108	520.6	104	80-120	3	0-20	
Bromide	ND	50.00	52.63	105	50.57	101	80-120	4	0-20	
Nitrate (as N)	ND	50.00	53.75	108	51.61	103	80-120	4	0-20	
Sulfate	205.6	500.0	788.5	117	755.4	110	80-120	4	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	06/06/15
6200 UTSA Blvd., Suite 102	Work Order:	15-06-0567
San Antonio, TX 78249-1618	Preparation:	N/A
	Method:	EPA 365.1
Project: EAA 27122		Page 3 of 20

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0884-1	**Sample**	**Aqueous**	**ACA 1**	**N/A**	**06/13/15 14:38**	**150613S01**
15-06-0884-1	**Matrix Spike**	**Aqueous**	**ACA 1**	**N/A**	**06/13/15 14:38**	**150613S01**
15-06-0884-1	**Matrix Spike Duplicate**	**Aqueous**	**ACA 1**	**N/A**	**06/13/15 14:38**	**150613S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	ND	0.2000	0.2211	111	0.2262	113	90-110	2	0-25	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: EPA 9060A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0424-1	**Sample**	**Solid**	**TOC 5**	**06/15/15**	**06/15/15 16:48**	**F0615TOCS1**
15-06-0424-1	**Matrix Spike**	**Solid**	**TOC 5**	**06/15/15**	**06/15/15 16:48**	**F0615TOCS1**
15-06-0424-1	**Matrix Spike Duplicate**	**Solid**	**TOC 5**	**06/15/15**	**06/15/15 16:48**	**F0615TOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	600.0	30000	26100	85	24200	79	75-125	8	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: SM 4500 P B/E (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM320	**Sample**	**Solid**	**UV 7**	**06/10/15**	**06/11/15 16:26**	**F0611TPS2**
HSM320	**Matrix Spike**	**Solid**	**UV 7**	**06/10/15**	**06/11/15 16:26**	**F0611TPS2**
HSM320	**Matrix Spike Duplicate**	**Solid**	**UV 7**	**06/10/15**	**06/11/15 16:26**	**F0611TPS2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	39.46	40.00	80.30	102	80.70	103	70-130	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	06/06/15
6200 UTSA Blvd., Suite 102	Work Order:	15-06-0567
San Antonio, TX 78249-1618	Preparation:	N/A
	Method:	SM 5310 B
Project: EAA 27122		Page 6 of 20

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0884-1	**Sample**	**Aqueous**	**TOC 8**	**06/19/15**	**06/19/15 22:52**	**F0619TOCS1**
15-06-0884-1	**Matrix Spike**	**Aqueous**	**TOC 8**	**06/19/15**	**06/19/15 22:52**	**F0619TOCS1**
15-06-0884-1	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**06/19/15**	**06/19/15 22:52**	**F0619TOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	0.7770	10.00	9.700	89	9.420	86	31-145	3	0-23	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3050B
Method: EPA 6010B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM310	**Sample**	**Solid**	**ICP 7300**	**06/11/15**	**06/24/15 17:13**	**150611S09A**
HSM310	**Matrix Spike**	**Solid**	**ICP 7300**	**06/11/15**	**06/24/15 17:15**	**150611S09A**
HSM310	**Matrix Spike Duplicate**	**Solid**	**ICP 7300**	**06/11/15**	**06/24/15 17:18**	**150611S09A**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Calcium	43080	25.00	43440	4X	45040	4X	75-125	4X	0-20	Q
Magnesium	1104	25.00	1152	4X	1167	4X	75-125	4X	0-20	Q
Potassium	863.7	250.0	1192	131	1199	134	75-125	1	0-20	3
Sodium	95.79	250.0	421.6	130	426.0	132	75-125	1	0-20	3
Strontium	84.54	25.00	115.4	124	116.4	128	75-125	1	0-20	3
Silicon	915.1	25.00	942.5	4X	957.0	4X	75-125	4X	0-20	Q

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
Project: EAA 27122			Page 8 of 20

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-1010-11	**Sample**	**Aqueous**	**ICP 7300**	**06/15/15**	**06/16/15 14:06**	**150615SA4**
15-06-1010-11	**Matrix Spike**	**Aqueous**	**ICP 7300**	**06/15/15**	**06/16/15 14:08**	**150615SA4**
15-06-1010-11	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**06/15/15**	**06/16/15 14:09**	**150615SA4**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Calcium	36.00	0.5000	36.02	4X	36.11	4X	77-113	4X	0-11	Q
Magnesium	79.75	0.5000	79.89	4X	79.35	4X	56-140	4X	0-11	Q
Potassium	0.5344	5.000	5.794	105	6.047	110	83-131	4	0-7	
Sodium	44.98	5.000	49.93	4X	50.05	4X	73-127	4X	0-9	Q
Strontium	1.051	0.5000	1.577	105	1.604	111	81-123	2	0-6	
Silicon	13.42	0.5000	13.81	4X	13.58	4X	24-180	4X	0-15	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: EAA 27122			Page 9 of 20

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0965-1	**Sample**	**Solid**	**ICP/MS 03**	**06/12/15**	**06/12/15 17:47**	**150612S01**
15-06-0965-1	**Matrix Spike**	**Solid**	**ICP/MS 03**	**06/12/15**	**06/12/15 17:32**	**150612S01**
15-06-0965-1	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 03**	**06/12/15**	**06/12/15 17:36**	**150612S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	9.499	38	9.348	37	1-97	2	0-39	
Arsenic	3.329	25.00	29.78	106	29.45	104	72-132	1	0-13	
Barium	192.6	25.00	237.7	4X	235.3	4X	50-152	4X	0-41	Q
Beryllium	ND	25.00	28.23	113	27.82	111	61-121	1	0-13	
Cadmium	ND	25.00	28.73	115	28.04	112	85-121	2	0-12	
Chromium	37.93	25.00	66.38	114	65.17	109	20-182	2	0-15	
Copper	29.39	25.00	58.57	117	57.61	113	25-157	2	0-22	
Lead	9.600	25.00	36.59	108	36.60	108	62-134	0	0-23	
Nickel	25.79	25.00	52.61	107	50.85	100	46-154	3	0-15	
Selenium	ND	25.00	27.57	110	27.27	109	54-132	1	0-14	
Silver	ND	12.50	14.00	112	13.43	107	78-126	4	0-15	
Thallium	ND	25.00	24.81	99	24.97	100	79-115	1	0-11	
Zinc	96.60	25.00	131.5	140	131.0	138	23-173	0	0-18	
Aluminum	19620	25.00	22610	4X	22010	4X	80-120	4X	0-20	Q
Iron	30610	25.00	32270	4X	30950	4X	80-120	4X	0-20	Q
Manganese	312.0	25.00	320.6	4X	313.9	4X	80-120	4X	0-20	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0423-2	**Sample**	**Aqueous**	**ICP/MS 04**	**06/08/15**	**06/09/15 17:26**	**150608SA2A**
15-06-0423-2	**Matrix Spike**	**Aqueous**	**ICP/MS 04**	**06/08/15**	**06/09/15 17:07**	**150608SA2A**
15-06-0423-2	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 04**	**06/08/15**	**06/09/15 17:11**	**150608SA2A**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.1000	0.09236	92	0.08643	86	85-133	7	0-11	
Arsenic	ND	0.1000	0.08479	85	0.08075	81	73-127	5	0-11	
Barium	0.05909	0.1000	0.1576	99	0.1571	98	74-128	0	0-10	
Beryllium	ND	0.1000	0.09956	100	0.09269	93	56-122	7	0-11	
Cadmium	ND	0.1000	0.08748	87	0.08354	84	84-114	5	0-8	
Chromium	0.001241	0.1000	0.1117	110	0.1002	99	73-133	11	0-11	
Copper	0.001283	0.1000	0.09526	94	0.09005	89	72-108	6	0-10	
Lead	ND	0.1000	0.1092	109	0.1029	103	79-121	6	0-10	
Nickel	0.006589	0.1000	0.09759	91	0.09413	88	68-122	4	0-10	
Selenium	0.001400	0.1000	0.07889	77	0.07473	73	59-125	5	0-12	
Silver	ND	0.05000	0.04526	91	0.04702	94	68-128	4	0-14	
Thallium	ND	0.1000	0.1080	108	0.1008	101	73-121	7	0-11	
Zinc	ND	0.1000	0.08150	82	0.07452	75	43-145	9	0-39	
Aluminum	ND	0.1000	0.1043	104	0.1024	102	47-161	2	0-24	
Iron	0.08723	5.100	5.337	103	5.329	103	27-201	0	0-24	
Manganese	0.03515	0.1000	0.1365	101	0.1322	97	72-126	3	0-42	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 7470A Total
		Method:	EPA 7470A
Project: EAA 27122			Page 11 of 20

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0577-1	**Sample**	**Aqueous**	**Mercury 04**	**06/08/15**	**06/08/15 13:59**	**150608S01**
15-06-0577-1	**Matrix Spike**	**Aqueous**	**Mercury 04**	**06/08/15**	**06/08/15 14:01**	**150608S01**
15-06-0577-1	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 04**	**06/08/15**	**06/08/15 14:03**	**150608S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.01008	101	0.009980	100	57-141	1	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: EAA 27122			Page 12 of 20

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-1080-1	**Sample**	**Solid**	**Mercury 05**	**06/17/15**	**06/17/15 20:12**	**150617S03**
15-06-1080-1	**Matrix Spike**	**Solid**	**Mercury 05**	**06/17/15**	**06/17/15 20:14**	**150617S03**
15-06-1080-1	**Matrix Spike Duplicate**	**Solid**	**Mercury 05**	**06/17/15**	**06/17/15 20:16**	**150617S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.6237	0.8350	1.383	91	1.596	116	71-137	14	0-14	

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8081A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0778-2	**Sample**	**Solid**	**GC 41**	**06/10/15**	**06/11/15 19:49**	**150610S17**
15-06-0778-2	**Matrix Spike**	**Solid**	**GC 41**	**06/10/15**	**06/11/15 19:02**	**150610S17**
15-06-0778-2	**Matrix Spike Duplicate**	**Solid**	**GC 41**	**06/10/15**	**06/11/15 19:18**	**150610S17**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	22.05	88	20.40	82	50-135	8	0-25	
Alpha-BHC	ND	25.00	20.34	81	19.27	77	50-135	5	0-25	
Beta-BHC	ND	25.00	20.16	81	20.56	82	50-135	2	0-25	
4,4'-DDD	7.030	25.00	23.78	67	25.52	74	50-135	7	0-25	
4,4'-DDE	ND	25.00	21.65	87	21.54	86	50-135	1	0-25	
4,4'-DDT	ND	25.00	21.19	85	19.94	80	50-135	6	0-25	
Delta-BHC	ND	25.00	19.98	80	19.62	78	50-135	2	0-25	
Dieldrin	ND	25.00	21.49	86	20.07	80	50-135	7	0-25	
Endosulfan I	ND	25.00	18.67	75	17.22	69	50-135	8	0-25	
Endosulfan II	ND	25.00	19.02	76	17.54	70	50-135	8	0-25	
Endosulfan Sulfate	ND	25.00	18.09	72	17.33	69	50-135	4	0-25	
Endrin	ND	25.00	20.06	80	19.03	76	50-135	5	0-25	
Endrin Aldehyde	ND	25.00	16.33	65	16.32	65	50-135	0	0-25	
Gamma-BHC	ND	25.00	20.45	82	19.27	77	50-135	6	0-25	
Heptachlor	ND	25.00	19.92	80	18.70	75	50-135	6	0-25	
Heptachlor Epoxide	ND	25.00	18.65	75	17.54	70	50-135	6	0-25	
Methoxychlor	ND	25.00	18.88	76	18.53	74	50-135	2	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	06/06/15
6200 UTSA Blvd., Suite 102	Work Order:	15-06-0567
San Antonio, TX 78249-1618	Preparation:	EPA 3545
	Method:	EPA 8082
Project: EAA 27122		Page 14 of 20

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0778-2	**Sample**	**Solid**	**GC 58**	**06/10/15**	**06/11/15 23:34**	**150610S18**
15-06-0778-2	**Matrix Spike**	**Solid**	**GC 58**	**06/10/15**	**06/11/15 22:40**	**150610S18**
15-06-0778-2	**Matrix Spike Duplicate**	**Solid**	**GC 58**	**06/10/15**	**06/11/15 22:58**	**150610S18**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	116.1	116	128.6	129	50-135	10	0-20	
Aroclor-1260	ND	100.0	98.04	98	106.2	106	50-135	8	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8141A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-05-2040-31	**Sample**	**Solid**	**GC 26**	**06/09/15**	**06/12/15 14:21**	**150609S20**
15-05-2040-31	**Matrix Spike**	**Solid**	**GC 26**	**06/09/15**	**06/12/15 12:53**	**150609S20**
15-05-2040-31	**Matrix Spike Duplicate**	**Solid**	**GC 26**	**06/09/15**	**06/12/15 13:37**	**150609S20**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	ND	4.000	4.195	105	4.092	102	30-130	2	0-30	
Bolstar	ND	4.000	3.999	100	3.906	98	30-130	2	0-30	
Chlorpyrifos	ND	4.000	3.810	95	3.691	92	30-130	3	0-30	
Coumaphos	ND	4.000	4.344	109	4.281	107	30-130	1	0-30	
Diazinon	ND	4.000	3.873	97	3.883	97	30-130	0	0-30	
Disulfoton	ND	4.000	4.393	110	4.327	108	30-130	2	0-30	
Ethoprop	ND	4.000	4.096	102	4.008	100	30-130	2	0-30	
Fensulfothion	ND	4.000	4.015	100	4.000	100	30-130	0	0-30	
Fenthion	ND	4.000	3.881	97	3.760	94	30-130	3	0-30	
Merphos	ND	4.000	3.825	96	3.767	94	30-130	2	0-30	
Methyl Parathion	ND	4.000	3.784	95	3.655	91	30-130	3	0-30	
Phorate	ND	4.000	4.678	117	4.463	112	30-130	5	0-30	
Ronnel	ND	4.000	3.702	93	3.594	90	30-130	3	0-30	
Stirophos	ND	4.000	3.328	83	3.267	82	30-130	2	0-30	
Tokuthion	ND	4.000	3.249	81	3.139	78	30-130	3	0-30	
Trichloronate	ND	4.000	3.914	98	3.789	95	30-130	3	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	06/06/15
6200 UTSA Blvd., Suite 102	Work Order:	15-06-0567
San Antonio, TX 78249-1618	Preparation:	EPA 8151A
	Method:	EPA 8151A
Project: EAA 27122		Page 16 of 20

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0559-4	**Sample**	**Solid**	**GC 40**	**06/10/15**	**06/11/15 21:39**	**150610S09**
15-06-0559-4	**Matrix Spike**	**Solid**	**GC 40**	**06/10/15**	**06/11/15 19:44**	**150610S09**
15-06-0559-4	**Matrix Spike Duplicate**	**Solid**	**GC 40**	**06/10/15**	**06/11/15 20:07**	**150610S09**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	ND	400.0	259.5	65	263.7	66	30-130	2	0-30	
2,4,5-T	ND	40.00	26.20	66	26.50	66	30-130	1	0-30	
2,4-DB	ND	400.0	308.8	77	284.7	71	30-130	8	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3545
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0562-3	**Sample**	**Solid**	**GC/MS TT**	**06/11/15**	**06/11/15 18:16**	**150611S02**
15-06-0562-3	**Matrix Spike**	**Solid**	**GC/MS TT**	**06/11/15**	**06/11/15 18:35**	**150611S02**
15-06-0562-3	**Matrix Spike Duplicate**	**Solid**	**GC/MS TT**	**06/11/15**	**06/12/15 12:07**	**150611S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acenaphthene	ND	10.00	8.524	85	8.573	86	34-148	1	0-20	
Acenaphthylene	ND	10.00	8.345	83	8.398	84	53-120	1	0-20	
Butyl Benzyl Phthalate	ND	10.00	9.267	93	9.369	94	15-189	1	0-20	
4-Chloro-3-Methylphenol	ND	10.00	8.396	84	9.066	91	32-120	8	0-20	
2-Chlorophenol	ND	10.00	8.130	81	8.393	84	53-120	3	0-20	
1,4-Dichlorobenzene	ND	10.00	6.024	60	6.091	61	43-120	1	0-26	
Dimethyl Phthalate	ND	10.00	7.777	78	8.138	81	44-122	5	0-20	
2,4-Dinitrotoluene	ND	10.00	8.156	82	8.663	87	28-120	6	0-20	
Fluorene	ND	10.00	8.435	84	8.771	88	12-186	4	0-20	
N-Nitroso-di-n-propylamine	ND	10.00	6.369	64	6.891	69	38-140	8	0-20	
Naphthalene	ND	10.00	7.922	79	7.953	80	20-140	0	0-20	
4-Nitrophenol	ND	10.00	8.077	81	8.997	90	14-128	11	0-59	
Pentachlorophenol	ND	10.00	7.978	80	8.826	88	10-124	10	0-20	
Phenol	ND	10.00	7.455	75	8.017	80	22-124	7	0-20	
Pyrene	ND	10.00	8.828	88	8.932	89	31-169	1	0-20	
1,2,4-Trichlorobenzene	ND	10.00	7.838	78	7.923	79	56-120	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-1033-2	**Sample**	**Aqueous**	**GC/MS WW**	**06/13/15**	**06/13/15 18:26**	**150613S016**
15-06-1033-2	**Matrix Spike**	**Aqueous**	**GC/MS WW**	**06/13/15**	**06/13/15 13:45**	**150613S016**
15-06-1033-2	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS WW**	**06/13/15**	**06/13/15 14:17**	**150613S016**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	50.49	101	48.46	97	74-122	4	0-21	
Carbon Tetrachloride	ND	50.00	54.43	109	49.19	98	60-144	10	0-21	
Chlorobenzene	ND	50.00	50.85	102	49.80	100	73-120	2	0-22	
1,2-Dibromoethane	ND	50.00	49.67	99	50.90	102	80-122	2	0-20	
1,2-Dichlorobenzene	ND	50.00	52.20	104	48.90	98	70-120	7	0-26	
1,2-Dichloroethane	ND	50.00	51.93	104	49.63	99	64-142	5	0-20	
1,1-Dichloroethene	ND	50.00	66.34	133	59.69	119	52-136	11	0-21	
Ethylbenzene	ND	50.00	59.36	119	56.12	112	77-125	6	0-24	
Toluene	ND	50.00	54.80	110	51.31	103	72-126	7	0-23	
Trichloroethene	1.511	50.00	56.13	109	53.23	103	74-128	5	0-22	
Vinyl Chloride	ND	50.00	47.07	94	42.08	84	67-133	11	0-20	
p/m-Xylene	ND	100.0	118.9	119	110.5	111	63-129	7	0-25	
o-Xylene	ND	50.00	57.91	116	55.08	110	62-128	5	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	62.38	125	61.11	122	68-134	2	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0573-1	**Sample**	**Solid**	**GC/MS Q**	**06/08/15**	**06/09/15 02:59**	**150608S026**
15-06-0573-1	**Matrix Spike**	**Solid**	**GC/MS Q**	**06/08/15**	**06/09/15 08:18**	**150608S026**
15-06-0573-1	**Matrix Spike Duplicate**	**Solid**	**GC/MS Q**	**06/08/15**	**06/09/15 08:44**	**150608S026**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	34.19	68	34.46	69	61-127	1	0-20	
Carbon Tetrachloride	ND	50.00	37.69	75	38.02	76	51-135	1	0-29	
Chlorobenzene	ND	50.00	29.06	58	29.64	59	57-123	2	0-20	
1,2-Dibromoethane	ND	50.00	29.81	60	30.02	60	64-124	1	0-20	3
1,2-Dichlorobenzene	ND	50.00	20.75	42	21.34	43	35-131	3	0-25	
1,2-Dichloroethane	ND	50.00	28.37	57	28.63	57	80-120	1	0-20	3
1,1-Dichloroethene	ND	50.00	35.68	71	36.06	72	47-143	1	0-25	
Ethylbenzene	ND	50.00	33.59	67	33.84	68	57-129	1	0-22	
Toluene	ND	50.00	34.11	68	33.84	68	63-123	1	0-20	
Trichloroethene	ND	50.00	37.73	75	37.43	75	44-158	1	0-20	
Vinyl Chloride	ND	50.00	40.85	82	41.57	83	49-139	2	0-47	
p/m-Xylene	ND	100.0	65.41	65	65.20	65	70-130	0	0-30	3
o-Xylene	ND	50.00	30.29	61	30.61	61	70-130	1	0-30	3
Methyl-t-Butyl Ether (MTBE)	ND	50.00	30.36	61	30.62	61	57-123	1	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 20 of 20

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM310	**Sample**	**Solid**	**GC/MS BB**	**06/07/15**	**06/09/15 01:29**	**150608S015**
HSM310	**Matrix Spike**	**Solid**	**GC/MS BB**	**06/07/15**	**06/09/15 01:58**	**150608S015**
HSM310	**Matrix Spike Duplicate**	**Solid**	**GC/MS BB**	**06/07/15**	**06/09/15 02:26**	**150608S015**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	34.19	68	29.52	59	61-127	15	0-20	3
Carbon Tetrachloride	ND	50.00	33.52	67	27.82	56	51-135	19	0-29	
Chlorobenzene	ND	50.00	29.91	60	25.61	51	57-123	15	0-20	3
1,2-Dibromoethane	ND	50.00	32.34	65	29.26	59	64-124	10	0-20	3
1,2-Dichlorobenzene	ND	50.00	23.31	47	20.32	41	35-131	14	0-25	
1,2-Dichloroethane	ND	50.00	35.96	72	32.75	66	80-120	9	0-20	3
1,1-Dichloroethene	ND	50.00	36.85	74	31.66	63	47-143	15	0-25	
Ethylbenzene	ND	50.00	33.64	67	28.28	57	57-129	17	0-22	
Toluene	ND	50.00	33.21	66	28.24	56	63-123	16	0-20	3
Trichloroethene	ND	50.00	37.33	75	32.56	65	44-158	14	0-20	
Vinyl Chloride	ND	50.00	42.51	85	37.14	74	49-139	13	0-47	
p/m-Xylene	ND	100.0	65.93	66	55.31	55	70-130	18	0-30	3
o-Xylene	ND	50.00	30.10	60	25.63	51	70-130	16	0-30	3
Methyl-t-Butyl Ether (MTBE)	ND	50.00	34.27	69	32.08	64	57-123	7	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3050B
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
15-06-0965-1	**Sample**	**Solid**	**ICP/MS 03**	**06/12/15 00:00**	**06/12/15 17:47**	**150612S01**
15-06-0965-1	**PDS**	**Solid**	**ICP/MS 03**	**06/12/15 00:00**	**06/12/15 17:39**	**150612S01**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Antimony	ND	25.00	26.50	106	75-125	
Arsenic	3.329	25.00	29.85	106	75-125	
Barium	192.6	25.00	213.2	4X	75-125	Q
Beryllium	ND	25.00	27.16	109	75-125	
Cadmium	ND	25.00	26.43	106	75-125	
Chromium	37.93	25.00	61.81	96	75-125	
Copper	29.39	25.00	53.68	97	75-125	
Lead	9.600	25.00	35.87	105	75-125	
Nickel	25.79	25.00	48.91	92	75-125	
Selenium	ND	25.00	27.85	111	75-125	
Silver	ND	12.50	12.32	99	75-125	
Thallium	ND	25.00	25.49	102	75-125	
Zinc	96.60	25.00	123.7	108	75-125	
Aluminum	19620	25.00	19940	4X	75-125	Q
Iron	30610	25.00	30260	4X	75-125	Q
Manganese	312.0	25.00	328.0	4X	75-125	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3005A Filt.
Method: EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
15-06-0423-2	**Sample**	**Aqueous**	**ICP/MS 04**	**06/08/15 00:00**	**06/09/15 17:26**	**150608SA2A**
15-06-0423-2	**PDS**	**Aqueous**	**ICP/MS 04**	**06/08/15 00:00**	**06/09/15 17:14**	**150608SA2A**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Antimony	ND	0.1000	0.09069	91	75-125	
Arsenic	ND	0.1000	0.08723	87	75-125	
Barium	0.05909	0.1000	0.1523	93	75-125	
Beryllium	ND	0.1000	0.09423	94	75-125	
Cadmium	ND	0.1000	0.08697	87	75-125	
Chromium	0.001241	0.1000	0.1023	101	75-125	
Copper	0.001283	0.1000	0.09096	90	75-125	
Lead	ND	0.1000	0.1013	101	75-125	
Nickel	0.006589	0.1000	0.09511	89	75-125	
Selenium	0.001400	0.1000	0.08100	80	75-125	
Silver	ND	0.05000	0.04173	83	75-125	
Thallium	ND	0.1000	0.09854	99	75-125	
Zinc	ND	0.1000	0.08036	80	75-125	
Aluminum	ND	0.1000	0.1023	102	75-125	
Iron	0.08723	5.100	4.732	91	75-125	
Manganese	0.03515	0.1000	0.1294	94	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: ASTM D-2216 (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM310	**Sample**	**Solid**	**N/A**	**06/08/15 00:00**	**06/08/15 20:00**	**F0608MOID6**
HSM310	**Sample Duplicate**	**Solid**	**N/A**	**06/08/15 00:00**	**06/08/15 20:00**	**F0608MOID6**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	71.30	72.00	1	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: EPA 9045D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM310	**Sample**	**Solid**	**PH 4**	**06/06/15 00:00**	**06/06/15 14:23**	**F0606PHD2**
HSM310	**Sample Duplicate**	**Solid**	**PH 4**	**06/06/15 00:00**	**06/06/15 14:23**	**F0606PHD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	7.710	7.730	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
EB01	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**06/11/15 12:25**	**F0611ALKD1**
EB01	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**06/11/15 12:25**	**F0611ALKD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
EB01	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**06/11/15 12:25**	**F0611HCOD1**
EB01	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**06/11/15 12:25**	**F0611HCOD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Bicarbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
EB01	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**06/11/15 12:25**	**F0611CO3D1**
EB01	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**06/11/15 12:25**	**F0611CO3D1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Carbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: SM 2320B M
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-06-0770-3	**Sample**	**Solid**	**PH1/BUR03**	**N/A**	**06/15/15 16:35**	**F0615ALKD2**
15-06-0770-3	**Sample Duplicate**	**Solid**	**PH1/BUR03**	**N/A**	**06/15/15 16:35**	**F0615ALKD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	200.0	195.0	3	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: SM 2320B M
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-06-0770-3	**Sample**	**Solid**	**PH1/BUR03**	**06/15/15 00:00**	**06/15/15 16:35**	**F0615HCOD2**
15-06-0770-3	**Sample Duplicate**	**Solid**	**PH1/BUR03**	**06/15/15 00:00**	**06/15/15 16:35**	**F0615HCOD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Bicarbonate (as CaCO3)	200.0	195.0	3	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: SM 2320B M
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-06-0770-3	**Sample**	**Solid**	**PH1/BUR03**	**06/15/15 00:00**	**06/15/15 16:35**	**F0615CO3D2**
15-06-0770-3	**Sample Duplicate**	**Solid**	**PH1/BUR03**	**06/15/15 00:00**	**06/15/15 16:35**	**F0615CO3D2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Carbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-06-0863-1	**Sample**	**Aqueous**	**SC 2**	**06/11/15 00:00**	**06/11/15 18:00**	**F0611TDSD1**
15-06-0863-1	**Sample Duplicate**	**Aqueous**	**SC 2**	**06/11/15 00:00**	**06/11/15 18:00**	**F0611TDSD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	7900	7830	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: SM 2540 C (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM310	**Sample**	**Solid**	**SC 2**	**06/16/15 00:00**	**06/16/15 19:00**	**F0616TDSD1**
HSM310	**Sample Duplicate**	**Solid**	**SC 2**	**06/16/15 00:00**	**06/16/15 19:00**	**F0616TDSD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	1395	1429	2	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: SM 4500 H+ B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-06-0467-1	**Sample**	**Aqueous**	**PH 1**	**N/A**	**06/06/15 12:30**	**F0606PHD1**
15-06-0467-1	**Sample Duplicate**	**Aqueous**	**PH 1**	**N/A**	**06/06/15 12:30**	**F0606PHD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	7.480	7.460	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	N/A
		Method:	EPA 300.0
Project: EAA 27122			Page 1 of 27

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-906-5827	**LCS**	**Aqueous**	**IC 7**	**N/A**	**06/06/15 10:42**	**150606L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Fluoride	2.500	2.475	99	90-110	
Chloride	50.00	47.67	95	90-110	
Bromide	5.000	4.707	94	90-110	
Nitrate (as N)	5.000	4.810	96	90-110	
Sulfate	50.00	48.67	97	90-110	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	N/A
		Method:	EPA 300.0
Project: EAA 27122			Page 2 of 27

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-922-582	**LCS**	**Solid**	**IC 10**	**06/09/15**	**06/09/15 11:56**	**150609L01P**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Fluoride	25.00	23.64	95	90-110	
Chloride	500.0	513.1	103	90-110	
Bromide	50.00	50.56	101	90-110	
Nitrate (as N)	50.00	51.62	103	90-110	
Sulfate	500.0	516.2	103	90-110	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-739-107	**LCS**	**Aqueous**	**ACA 1**	**N/A**	**06/13/15 14:38**	**150613L01**
099-12-739-107	**LCSD**	**Aqueous**	**ACA 1**	**N/A**	**06/13/15 14:38**	**150613L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.2000	0.1957	98	0.1980	99	90-110	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: EPA 9060A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-013-1275	**LCS**	**Solid**	**TOC 5**	**06/15/15**	**06/15/15 16:48**	**F0615TOCL1**
099-06-013-1275	**LCSD**	**Solid**	**TOC 5**	**06/15/15**	**06/15/15 16:48**	**F0615TOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	6000	5946	99	5901	98	80-120	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-981-104	**LCS**	**Aqueous**	**PH1/BUR03**	**N/A**	**06/11/15 12:25**	**F0611ALKB1**
099-15-981-104	**LCSD**	**Aqueous**	**PH1/BUR03**	**N/A**	**06/11/15 12:25**	**F0611ALKB1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	10.00	10.00	100	10.00	100	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: SM 2540 C
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-180-4619	**LCS**	**Aqueous**	**SC 2**	**06/11/15**	**06/11/15 18:00**	**F0611TDSL1**
099-12-180-4619	**LCSD**	**Aqueous**	**SC 2**	**06/11/15**	**06/11/15 18:00**	**F0611TDSL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100.0	90.00	90	95.00	95	80-120	5	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: SM 4500 P B/E (M)
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-001-5419	**LCS**	**Solid**	**UV 7**	**06/10/15**	**06/11/15 16:26**	**F0611TPL2**
099-05-001-5419	**LCSD**	**Solid**	**UV 7**	**06/10/15**	**06/11/15 16:26**	**F0611TPL2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	2.000	1.940	97	1.945	97	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-5675	**LCS**	**Aqueous**	**TOC 8**	**06/19/15**	**06/19/15 22:52**	**F0619TOCL1**
099-05-097-5675	**LCSD**	**Aqueous**	**TOC 8**	**06/19/15**	**06/19/15 22:52**	**F0619TOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	10.00	8.700	87	9.320	93	80-120	7	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: EAA 27122			Page 9 of 27

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-21301	**LCS**	**Solid**	**ICP 7300**	**06/11/15**	**06/24/15 17:49**	**150611L09A**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Calcium	25.00	23.84	95	80-120	
Magnesium	25.00	23.97	96	80-120	
Potassium	250.0	222.2	89	80-120	
Sodium	250.0	222.7	89	80-120	
Strontium	25.00	24.92	100	80-120	
Silicon	25.00	20.35	81	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B
Project: EAA 27122			Page 10 of 27

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-683-1299	**LCS**	**Aqueous**	**ICP 7300**	**06/15/15**	**06/16/15 11:29**	**150615LA4F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Calcium	0.5000	0.5004	100	80-120	
Magnesium	0.5000	0.5464	109	80-120	
Potassium	5.000	5.072	101	80-120	
Sodium	5.000	5.025	101	80-120	
Strontium	0.5000	0.5134	103	80-120	
Silicon	0.5000	0.4580	92	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: EAA 27122			Page 11 of 27

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-955	**LCS**	**Solid**	**ICP/MS 03**	**06/12/15**	**06/12/15 17:29**	**150612L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	25.38	102	80-120	73-127	
Arsenic	25.00	27.13	109	80-120	73-127	
Barium	25.00	24.89	100	80-120	73-127	
Beryllium	25.00	26.54	106	80-120	73-127	
Cadmium	25.00	25.76	103	80-120	73-127	
Chromium	25.00	27.45	110	80-120	73-127	
Copper	25.00	27.35	109	80-120	73-127	
Lead	25.00	25.99	104	80-120	73-127	
Nickel	25.00	26.73	107	80-120	73-127	
Selenium	25.00	26.60	106	80-120	73-127	
Silver	12.50	12.30	98	80-120	73-127	
Thallium	25.00	24.90	100	80-120	73-127	
Zinc	25.00	26.62	106	80-120	73-127	
Aluminum	25.00	21.91	88	80-120	73-127	
Iron	25.00	23.45	94	80-120	73-127	
Manganese	25.00	27.37	109	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: EAA 27122			Page 12 of 27

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-693-842	**LCS**	**Aqueous**	**ICP/MS 04**	**06/08/15**	**06/09/15 17:03**	**150608LA2F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.1000	0.1040	104	80-120	73-127	
Arsenic	0.1000	0.1063	106	80-120	73-127	
Barium	0.1000	0.1029	103	80-120	73-127	
Beryllium	0.1000	0.1028	103	80-120	73-127	
Cadmium	0.1000	0.1028	103	80-120	73-127	
Chromium	0.1000	0.1071	107	80-120	73-127	
Copper	0.1000	0.1069	107	80-120	73-127	
Lead	0.1000	0.1030	103	80-120	73-127	
Nickel	0.1000	0.1039	104	80-120	73-127	
Selenium	0.1000	0.1021	102	80-120	73-127	
Silver	0.05000	0.04912	98	80-120	73-127	
Thallium	0.1000	0.1001	100	80-120	73-127	
Zinc	0.1000	0.1084	108	80-120	73-127	
Aluminum	0.1000	0.1064	106	80-120	73-127	
Iron	5.100	5.346	105	80-120	73-127	
Manganese	0.1000	0.1049	105	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A
Project: EAA 27122			Page 13 of 27

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-763-567	**LCS**	**Aqueous**	**Mercury 04**	**06/08/15**	**06/08/15 13:56**	**150608L01F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.009903	99	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: EAA 27122			Page 14 of 27

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-1355	**LCS**	**Solid**	**Mercury 05**	**06/17/15**	**06/17/15 20:05**	**150617L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	1.004	120	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

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6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: EAA 27122			Page 15 of 27

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-2135	**LCS**	**Solid**	**GC 41**	**06/10/15**	**06/11/15 20:20**	**150610L17**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	20.45	82	50-135	36-149	
Alpha-BHC	25.00	20.79	83	50-135	36-149	
Beta-BHC	25.00	27.23	109	50-135	36-149	
4,4'-DDD	25.00	22.65	91	50-135	36-149	
4,4'-DDE	25.00	23.00	92	50-135	36-149	
4,4'-DDT	25.00	22.73	91	50-135	36-149	
Delta-BHC	25.00	22.29	89	50-135	36-149	
Dieldrin	25.00	24.68	99	50-135	36-149	
Endosulfan I	25.00	22.91	92	50-135	36-149	
Endosulfan II	25.00	23.81	95	50-135	36-149	
Endosulfan Sulfate	25.00	22.64	91	50-135	36-149	
Endrin	25.00	23.83	95	50-135	36-149	
Endrin Aldehyde	25.00	19.96	80	50-135	36-149	
Gamma-BHC	25.00	21.53	86	50-135	36-149	
Heptachlor	25.00	23.29	93	50-135	36-149	
Heptachlor Epoxide	25.00	23.29	93	50-135	36-149	
Methoxychlor	25.00	23.76	95	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3510C
Method: EPA 8081A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-813	**LCS**	**Aqueous**	**GC 44**	**06/08/15**	**06/10/15 13:57**	**150608L02**
099-12-529-813	**LCSD**	**Aqueous**	**GC 44**	**06/08/15**	**06/10/15 14:12**	**150608L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.4410	88	0.4620	92	50-135	36-149	5	0-25	
Gamma-BHC	0.5000	0.4504	90	0.4709	94	50-135	36-149	4	0-25	
Beta-BHC	0.5000	0.4414	88	0.4599	92	50-135	36-149	4	0-25	
Heptachlor	0.5000	0.4442	89	0.4606	92	50-135	36-149	4	0-25	
Delta-BHC	0.5000	0.4371	87	0.4555	91	50-135	36-149	4	0-25	
Aldrin	0.5000	0.4354	87	0.4617	92	50-135	36-149	6	0-25	
Heptachlor Epoxide	0.5000	0.4343	87	0.4542	91	50-135	36-149	4	0-25	
Endosulfan I	0.5000	0.4494	90	0.4778	96	50-135	36-149	6	0-25	
Dieldrin	0.5000	0.4510	90	0.4718	94	50-135	36-149	4	0-25	
4,4'-DDE	0.5000	0.4065	81	0.4165	83	50-135	36-149	2	0-25	
Endrin	0.5000	0.4627	93	0.4719	94	50-135	36-149	2	0-25	
Endrin Aldehyde	0.5000	0.3976	80	0.4285	86	50-135	36-149	7	0-25	
4,4'-DDD	0.5000	0.4460	89	0.4669	93	50-135	36-149	5	0-25	
Endosulfan II	0.5000	0.4405	88	0.4605	92	50-135	36-149	4	0-25	
4,4'-DDT	0.5000	0.3572	71	0.3586	72	50-135	36-149	0	0-25	
Endosulfan Sulfate	0.5000	0.4403	88	0.4498	90	50-135	36-149	2	0-25	
Methoxychlor	0.5000	0.3351	67	0.3408	68	50-135	36-149	2	0-25	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3545
		Method:	EPA 8082
Project: EAA 27122			Page 17 of 27

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-3266	**LCS**	**Solid**	**GC 58**	**06/10/15**	**06/11/15 22:03**	**150610L18**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	74.42	74	50-135	
Aroclor-1260	100.0	56.80	57	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3510C
Method: EPA 8082

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1050	**LCS**	**Aqueous**	**GC 31**	**06/08/15**	**06/09/15 18:42**	**150608L03**
099-12-533-1050	**LCSD**	**Aqueous**	**GC 31**	**06/08/15**	**06/09/15 19:01**	**150608L03**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	2.265	113	2.014	101	50-135	12	0-25	
Aroclor-1260	2.000	1.990	100	1.716	86	50-135	15	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3510C
Method: EPA 8141A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-963-97	**LCS**	**Aqueous**	**GC 26**	**06/08/15**	**06/10/15 12:52**	**150608L04**
099-15-963-97	**LCSD**	**Aqueous**	**GC 26**	**06/08/15**	**06/10/15 13:37**	**150608L04**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	0.04000	0.04300	108	0.04589	115	30-130	13-147	7	0-30	
Bolstar	0.04000	0.03955	99	0.04185	105	30-130	13-147	6	0-30	
Chlorpyrifos	0.04000	0.03756	94	0.04046	101	30-130	13-147	7	0-30	
Coumaphos	0.04000	0.04345	109	0.04521	113	30-130	13-147	4	0-30	
Diazinon	0.04000	0.04000	100	0.04434	111	30-130	13-147	10	0-30	
Disulfoton	0.04000	0.04213	105	0.04673	117	30-130	13-147	10	0-30	
Ethoprop	0.04000	0.04083	102	0.04688	117	30-130	13-147	14	0-30	
Fensulfothion	0.04000	0.04101	103	0.04297	107	30-130	13-147	5	0-30	
Fenthion	0.04000	0.03866	97	0.04328	108	30-130	13-147	11	0-30	
Merphos	0.04000	0.03773	94	0.04108	103	30-130	13-147	9	0-30	
Methyl Parathion	0.04000	0.03595	90	0.04168	104	30-130	13-147	15	0-30	
Phorate	0.04000	0.04692	117	0.04556	114	30-130	13-147	3	0-30	
Ronnel	0.04000	0.03567	89	0.04195	105	30-130	13-147	16	0-30	
Stirophos	0.04000	0.03312	83	0.03577	89	30-130	13-147	8	0-30	
Tokuthion	0.04000	0.04239	106	0.04464	112	30-130	13-147	5	0-30	
Trichloronate	0.04000	0.03861	97	0.04175	104	30-130	13-147	8	0-30	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3545
		Method:	EPA 8141A
Project: EAA 27122			Page 20 of 27

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-973-188	**LCS**	**Solid**	**GC 26**	**06/09/15**	**06/12/15 12:08**	**150609L20**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Azinphos Methyl	4.000	4.285	107	30-130	13-147	
Bolstar	4.000	4.166	104	30-130	13-147	
Chlorpyrifos	4.000	3.975	99	30-130	13-147	
Coumaphos	4.000	4.409	110	30-130	13-147	
Diazinon	4.000	4.067	102	30-130	13-147	
Disulfoton	4.000	4.556	114	30-130	13-147	
Ethoprop	4.000	4.265	107	30-130	13-147	
Fensulfothion	4.000	4.241	106	30-130	13-147	
Fenthion	4.000	4.046	101	30-130	13-147	
Merphos	4.000	4.057	101	30-130	13-147	
Methyl Parathion	4.000	3.836	96	30-130	13-147	
Phorate	4.000	5.086	127	30-130	13-147	
Ronnel	4.000	3.789	95	30-130	13-147	
Stirophos	4.000	3.444	86	30-130	13-147	
Tokuthion	4.000	4.172	104	30-130	13-147	
Trichloronate	4.000	4.033	101	30-130	13-147	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 8151A
		Method:	EPA 8151A
Project: EAA 27122			Page 21 of 27

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
095-01-033-1294	**LCS**	**Solid**	**GC 40**	**06/10/15**	**06/11/15 18:57**	**150610L09**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
2,4-D	400.0	284.1	71	30-130	
2,4,5-T	40.00	28.70	72	30-130	
2,4-DB	400.0	291.7	73	30-130	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 8151A
Method: EPA 8151A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-034-647	**LCS**	**Aqueous**	**GC 40**	**06/08/15**	**06/12/15 03:48**	**150608L06**
095-01-034-647	**LCSD**	**Aqueous**	**GC 40**	**06/08/15**	**06/12/15 04:11**	**150608L06**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	20.00	20.57	103	16.46	82	30-130	22	0-30	
2,4,5-T	2.000	2.010	100	1.665	83	30-130	19	0-30	
2,4-DB	20.00	22.49	112	18.35	92	30-130	20	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/06/15
Work Order: 15-06-0567
Preparation: EPA 3510C
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-4051	**LCS**	**Aqueous**	**GC/MS TT**	**06/08/15**	**06/08/15 16:14**	**150608L01**
095-01-003-4051	**LCSD**	**Aqueous**	**GC/MS TT**	**06/08/15**	**06/08/15 16:33**	**150608L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	200.0	158.8	79	171.2	86	61-120	51-130	8	0-20	
Acenaphthylene	200.0	155.7	78	167.0	84	55-120	44-131	7	0-20	
Butyl Benzyl Phthalate	200.0	161.0	80	171.0	86	56-122	45-133	6	0-20	
4-Chloro-3-Methylphenol	200.0	151.4	76	160.9	80	52-120	41-131	6	0-20	
2-Chlorophenol	200.0	151.9	76	159.7	80	47-120	35-132	5	0-20	
1,4-Dichlorobenzene	200.0	147.8	74	155.7	78	36-120	22-134	5	0-20	
Dimethyl Phthalate	200.0	154.9	77	163.9	82	60-120	50-130	6	0-20	
2,4-Dinitrotoluene	200.0	153.9	77	164.7	82	61-121	51-131	7	0-20	
Fluorene	200.0	157.3	79	169.1	85	67-120	58-129	7	0-20	
N-Nitroso-di-n-propylamine	200.0	139.6	70	143.6	72	39-123	25-137	3	0-20	
Naphthalene	200.0	156.0	78	166.9	83	54-120	43-131	7	0-20	
4-Nitrophenol	200.0	66.80	33	69.92	35	14-120	0-138	5	0-20	
Pentachlorophenol	200.0	157.2	79	165.5	83	31-127	15-143	5	0-20	
Phenol	200.0	72.85	36	74.14	37	17-120	0-137	2	0-20	
Pyrene	200.0	162.4	81	172.5	86	58-124	47-135	6	0-20	
1,2,4-Trichlorobenzene	200.0	164.0	82	172.5	86	49-120	37-132	5	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 3545
		Method:	EPA 8270C
Project: EAA 27122			Page 24 of 27

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-549-3303	**LCS**	**Solid**	**GC/MS TT**	**06/11/15**	**06/11/15 16:35**	**150611L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acenaphthene	10.00	8.342	83	51-123	39-135	
Acenaphthylene	10.00	8.197	82	52-120	41-131	
Butyl Benzyl Phthalate	10.00	9.211	92	43-139	27-155	
4-Chloro-3-Methylphenol	10.00	8.287	83	55-121	44-132	
2-Chlorophenol	10.00	8.255	83	58-124	47-135	
1,4-Dichlorobenzene	10.00	7.641	76	42-132	27-147	
Dimethyl Phthalate	10.00	7.933	79	51-123	39-135	
2,4-Dinitrotoluene	10.00	8.347	83	51-129	38-142	
Fluorene	10.00	8.266	83	54-126	42-138	
N-Nitroso-di-n-propylamine	10.00	6.744	67	40-136	24-152	
Naphthalene	10.00	8.350	84	32-146	13-165	
4-Nitrophenol	10.00	7.644	76	24-126	7-143	
Pentachlorophenol	10.00	8.449	84	23-131	5-149	
Phenol	10.00	7.455	75	40-130	25-145	
Pyrene	10.00	8.656	87	47-143	31-159	
1,2,4-Trichlorobenzene	10.00	8.784	88	45-129	31-143	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 25 of 27

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-17386	**LCS**	**Aqueous**	**GC/MS WW**	**06/13/15**	**06/13/15 13:06**	**150613L015**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	45.74	91	80-120	73-127	
Carbon Tetrachloride	50.00	48.33	97	67-139	55-151	
Chlorobenzene	50.00	47.32	95	78-120	71-127	
1,2-Dibromoethane	50.00	49.00	98	80-120	73-127	
1,2-Dichlorobenzene	50.00	48.18	96	63-129	52-140	
1,2-Dichloroethane	50.00	50.72	101	70-130	60-140	
1,1-Dichloroethene	50.00	58.69	117	66-126	56-136	
Ethylbenzene	50.00	54.35	109	80-123	73-130	
Toluene	50.00	49.61	99	80-120	73-127	
Trichloroethene	50.00	49.95	100	80-122	73-129	
Vinyl Chloride	50.00	40.85	82	70-130	60-140	
p/m-Xylene	100.0	110.6	111	75-123	67-131	
o-Xylene	50.00	53.42	107	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	59.59	119	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 26 of 27

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-796-9818	**LCS**	**Solid**	**GC/MS Q**	**06/08/15**	**06/09/15 01:13**	**150608L054**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	44.86	90	78-120	71-127	
Carbon Tetrachloride	50.00	41.59	83	49-139	34-154	
Chlorobenzene	50.00	43.99	88	79-120	72-127	
1,2-Dibromoethane	50.00	49.41	99	80-120	73-127	
1,2-Dichlorobenzene	50.00	44.19	88	75-120	68-128	
1,2-Dichloroethane	50.00	43.77	88	80-120	73-127	
1,1-Dichloroethene	50.00	39.78	80	74-122	66-130	
Ethylbenzene	50.00	45.21	90	76-120	69-127	
Toluene	50.00	44.54	89	77-120	70-127	
Trichloroethene	50.00	46.24	92	80-120	73-127	
Vinyl Chloride	50.00	46.42	93	68-122	59-131	
p/m-Xylene	100.0	89.56	90	75-125	67-133	
o-Xylene	50.00	43.84	88	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)	50.00	45.12	90	77-120	70-127	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/06/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0567
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 27 of 27

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-796-9792	**LCS**	**Solid**	**GC/MS BB**	**06/08/15**	**06/08/15 23:35**	**150608L032**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	47.92	96	78-120	71-127	
Carbon Tetrachloride	50.00	48.50	97	49-139	34-154	
Chlorobenzene	50.00	46.87	94	79-120	72-127	
1,2-Dibromoethane	50.00	52.05	104	80-120	73-127	
1,2-Dichlorobenzene	50.00	47.61	95	75-120	68-128	
1,2-Dichloroethane	50.00	52.94	106	80-120	73-127	
1,1-Dichloroethene	50.00	45.84	92	74-122	66-130	
Ethylbenzene	50.00	50.03	100	76-120	69-127	
Toluene	50.00	47.50	95	77-120	70-127	
Trichloroethene	50.00	49.38	99	80-120	73-127	
Vinyl Chloride	50.00	50.26	101	68-122	59-131	
p/m-Xylene	100.0	99.65	100	75-125	67-133	
o-Xylene	50.00	46.85	94	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)	50.00	49.85	100	77-120	70-127	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 15-06-0567 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **15-06-0567**

DATE: 06/05/15

PAGE: 1 OF 1

LABORATORY CLIENT: SWCA Environmental Consultants

ADDRESS: 6200 UTSA Blvd. Suite 102

CITY: San Antonio STATE: TX ZIP: 78249-1618

TEL: 210.877.2847 E-MAIL: PPearce@swca.com

CLIENT PROJECT NAME / NUMBER: EAA 27122

P.O. NO.:

PROJECT CONTACT: Philip Pearce

SAMPLER(S): (PRINT) Philip Pearce/Jennifer Moreland

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 10 Days (standard)

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Please analyze each sample for pH

EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 6010B (Si, Ca, Mg, K, Na, Sr)	EPA 6020 (See Comments)	EPA 7470A Mercury	EPA 1694 (M) Caffeine	EPA 8081A Organochlorine Pesticides	EPA 8082 PCB Aroclors	EPA 8141A Organophosphorus Pest	EPA 8151A Chlorinated Herbicides	EPA 8270C Semi-Volatile Organics	EPA 8260B Volatile Organics	EPA 300 Anions (F, Cl, Br, NO3, SO4)	EPA 365.1 Total Phosphorus	SM 2320B Alkalinity: Total, Bicarb, Carb	SM 5310B TOC	9040C pH	SM 5310B Solids, Total Dissolved	SM 4500 N Org B TKN	EPA 160.2 TSS
1	HSM310	6/5/2015	1003	Solid	2	2			x	X	X		X	X	x	X	X	x	X	X	x	X	X	x		
2	HSM320	6/5/2015	1048	Solid	2	2			x	X	X		X	X	x	X	X	x	X	X	x	X	X	x		
3	HSM330	6/5/2015	1103	Solid	2	2			x	X	X		X	X	x	X	X	x	X	X	x	X	X	x		
4	HSM340	6/5/2015	1121	Solid	2	2			x	X	X		X	X	x	X	X	x	X	X	x	X	X	x		
5	HSM350	6/5/2015	1224	Solid	2	2			x	X	X		X	X	x	X	X	x	X	X	x	X	X	x		
6	HSM360	6/5/2015	1313	Solid	2	2			x	X	X		X	X	x	X	X	x	X	X	x	X	X	x		
7	HSM370	6/5/2015	1351	Solid	2	2			x	X	X		X	X	x	X	X	x	X	X	x	X	X	x		
8	FDHSM370	6/5/2015	1351	Solid	2	2			x	X	X		X	X	x	X	X	x	X	X	x	X	X	x		
9	TB08	6/5/2015	NA	NPW	1													X								
10	EB01	6/5/2015	1541	NPW	9	2	7	1	x	X	X		X	X	x	X	X	x	X	X	x	X	X	x		

Relinquished by: (Signature) Jennifer Moreland SWCA	Received by: (Signature/Affiliation)	Date: 6/5/15	Time: 1700
Relinquished by: (Signature)	Received by: (Signature/Affiliation) ECI	Date: 6/6/15	Time: 0930
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

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0567

ORIGIN ID:SATA (210) 877-2847
SWCA INC

6200 UTSA BLVD STE 102

SAN ANTONIO, TX 782491618
UNITED STATES US

SHIP DATE: 05JUN15
ACTWGT: 45.0 LB MAN
CAD: /OFFC1601
DIMS: 23x14x14 IN

BILL SENDER

TO

CALSCIENCE
7440 LINCOLN WAY

GARDEN GROVE CA 92841
(714) 895-5494 REF:
INV:
PO: DEPT:

FedEx Express

E

J151215022301uv

2 of 2
MPS# 0681 7807 7591 1587
Mstr# 8062 7398 5461 0215

SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
92841
CA-US SNA

XO APVA

ORIGIN ID:SATA (210) 877-2847
SWCA INC

6200 UTSA BLVD STE 102

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7440 LINCOLN WAY

GARDEN GROVE CA 92841
(714) 895-5494 REF:
INV:
PO: DEPT:

FedEx Express

E

J151215022301uv

1 of 2
TRK# 0215 8062 7398 5461
MASTER

SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
92841
CA-US SNA

XO APVA

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WORK ORDER NUMBER: 15-06- 0567

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 2

CLIENT: SWCA

DATE: 06 / 06 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.1 °C (w/ CF): 2.8 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 802

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 802

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 965

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: 150508B)

Aqueous: ☐ VOA ☑ VOA**h** (3) ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** ☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 1gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☑ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☑ 2oz CGJ

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 965

Reviewed by: 802

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WORK ORDER NUMBER: 15-06- 0567

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 2

CLIENT: SWCA

DATE: 06 / 06 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.0 °C (w/ CF): 2.7 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SD2

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: SD2

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SD2

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: **(Trip Blank Lot Number:** _____**)**

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☑ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☑ 2ozCGJ

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 9105

Reviewed by: SD2

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WORK ORDER NUMBER: 15-06-0884

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: SWCA Environmental Consultants

Client Project Name: EAA 27122

Attention: Philip Pearce
6200 UTSA Blvd.
Suite 102
San Antonio, TX 78249-1618

FOR

Approved for release on 06/25/2015 by:
Don Burley
Project Manager

ResultLink

Email your PM

ACCREDITED IN ACCORDANCE WITH nelac

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Contents

Client Project Name: EAA 27122
Work Order Number: 15-06-0884

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Work Order Narrative

Work Order: 15-06-0884 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 06/11/15. They were assigned to Work Order 15-06-0884.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	SWCA Environmental Consultants	Work Order:	15-06-0884
	6200 UTSA Blvd., Suite 102	Project Name:	EAA 27122
	San Antonio, TX 78249-1618	PO Number:	
		Date/Time Received:	06/11/15 09:35
		Number of Containers:	9
Attn:	Philip Pearce		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
EB02	15-06-0884-1	06/10/15 13:26	9	Aqueous

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB02	**15-06-0884-1-I**	**06/10/15 13:26**	**Aqueous**	**IC 10**	**N/A**	**06/11/15 15:40**	**150611L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	ND	0.10	0.025	1.00	
Chloride	ND	1.0	0.12	1.00	
Bromide	ND	0.10	0.037	1.00	
Nitrate (as N)	ND	0.10	0.025	1.00	
Sulfate	ND	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-906-5828**	**N/A**	**Aqueous**	**IC 10**	**N/A**	**06/11/15 10:08**	**150611L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	ND	0.10	0.025	1.00	
Chloride	ND	1.0	0.12	1.00	
Bromide	ND	0.10	0.037	1.00	
Nitrate (as N)	ND	0.10	0.025	1.00	
Sulfate	ND	1.0	0.19	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB02	**15-06-0884-1-F**	**06/10/15 13:26**	**Aqueous**	**ICP 7300**	**06/15/15**	**06/23/15 15:05**	**150615LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	ND	0.100	0.0118	1.00	
Magnesium	0.0131	0.100	0.00336	1.00	B,J
Potassium	ND	0.500	0.103	1.00	
Sodium	ND	0.500	0.103	1.00	
Strontium	ND	0.0300	0.00277	1.00	
Silicon	ND	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-683-1299**	**N/A**	**Aqueous**	**ICP 7300**	**06/15/15**	**06/16/15 11:27**	**150615LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	ND	0.100	0.0118	1.00	
Magnesium	0.0372	0.100	0.00336	1.00	J
Potassium	ND	0.500	0.103	1.00	
Sodium	ND	0.500	0.103	1.00	
Strontium	ND	0.0300	0.00277	1.00	
Silicon	ND	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB02	**15-06-0884-1-F**	**06/10/15 13:26**	**Aqueous**	**ICP/MS 03**	**06/12/15**	**06/16/15 00:45**	**150612LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.000130	0.00100	0.0000986	1.00	J
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00155	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.000425	0.00100	0.000132	1.00	J
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00129	0.00500	0.000479	1.00	J
Aluminum	ND	0.0500	0.00331	1.00	
Iron	ND	0.0500	0.00926	1.00	
Manganese	0.000253	0.00100	0.000139	1.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-693-844**	**N/A**	**Aqueous**	**ICP/MS 03**	**06/12/15**	**06/15/15 18:56**	**150612LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	ND	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	ND	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	ND	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	ND	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	ND	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB02	**15-06-0884-1-F**	**06/10/15 13:26**	**Aqueous**	**Mercury 04**	**06/15/15**	**06/15/15 19:00**	**150615L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-763-571**	**N/A**	**Aqueous**	**Mercury 04**	**06/15/15**	**06/15/15 18:08**	**150615L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB02	**15-06-0884-1-I**	**06/10/15 13:26**	**Aqueous**	**GC 41**	**06/15/15**	**06/17/15 18:36**	**150615L01B**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	50-135	
2,4,5,6-Tetrachloro-m-Xylene	103	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-529-817**	**N/A**	**Aqueous**	**GC 41**	**06/15/15**	**06/17/15 17:35**	**150615L01B**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	100	50-135	
2,4,5,6-Tetrachloro-m-Xylene	78	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB02	**15-06-0884-1-I**	**06/10/15 13:26**	**Aqueous**	**GC 41**	**06/15/15**	**06/15/15 23:54**	**150615L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	50-135	
2,4,5,6-Tetrachloro-m-Xylene	111	50-135	

Method Blank	099-12-533-1052	N/A	Aqueous	GC 41	06/15/15	06/15/15 20:52	150615L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	50-135	
2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB02	**15-06-0884-1-I**	**06/10/15 13:26**	**Aqueous**	**GC 26**	**06/12/15**	**06/16/15 22:46**	**150612L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	116	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-963-99**	**N/A**	**Aqueous**	**GC 26**	**06/12/15**	**06/16/15 20:33**	**150612L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	116	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB02	**15-06-0884-1-I**	**06/10/15 13:26**	**Aqueous**	**GC 40**	**06/12/15**	**06/16/15 19:56**	**150612L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	65	0-123	

Method Blank	095-01-034-648	N/A	Aqueous	GC 40	06/12/15	06/16/15 18:23	150612L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	86	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB02	**15-06-0884-1-E**	**06/10/15 13:26**	**Aqueous**	**GC/MS SS**	**06/12/15**	**06/15/15 13:30**	**150612L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	06/11/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0884
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 3 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	83	33-120	
2-Fluorophenol	56	24-120	
Nitrobenzene-d5	79	38-120	
p-Terphenyl-d14	81	41-137	
Phenol-d6	35	16-120	
2,4,6-Tribromophenol	96	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-4053**	**N/A**	**Aqueous**	**GC/MS SS**	**06/12/15**	**06/13/15 16:19**	**150612L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.5	1.00	
Benzo (k) Fluoranthene	ND	10	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.7	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.8	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.5	1.00	
Dibenzofuran	ND	10	2.8	1.00	
1,2-Dichlorobenzene	ND	10	3.0	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	10	2.3	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.1	1.00	
Isophorone	ND	10	2.5	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.8	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.1	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.6	1.00	
Phenanthrene	ND	10	2.9	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.8	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	06/11/15
6200 UTSA Blvd., Suite 102	Work Order:	15-06-0884
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 6 of 6

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	86	33-120	
2-Fluorophenol	62	24-120	
Nitrobenzene-d5	81	38-120	
p-Terphenyl-d14	87	41-137	
Phenol-d6	41	16-120	
2,4,6-Tribromophenol	106	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB02	**15-06-0884-1-A**	**06/10/15 13:26**	**Aqueous**	**GC/MS Z**	**06/15/15**	**06/16/15 03:09**	**150615L021**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	26	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	0.45	1.0	0.24	1.00	J
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	104	80-120	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	95	75-135	
Toluene-d8	108	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-17406**	**N/A**	**Aqueous**	**GC/MS Z**	**06/15/15**	**06/16/15 00:37**	**150615L021**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	106	80-120	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	94	75-135	
Toluene-d8	108	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
EB02	**15-06-0884-1**	**06/10/15 13:26**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.020	0.050	0.020	1.00	J	mg/L	N/A	06/13/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	06/16/15	SM 2320B
Bicarbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	06/16/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	06/16/15	SM 2320B
Solids, Total Dissolved (24)	ND	1.0	0.87	1.00		mg/L	06/17/15	06/17/15	SM 2540 C
pH	6.85	0.01		1.00	BV,BU	pH units	N/A	06/11/15	SM 4500 H+ B
Carbon, Total Organic (24)	0.78	0.50	0.24	1.00		mg/L	06/19/15	06/19/15	SM 5310 B

Method Blank							**N/A**		**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	06/13/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	06/16/15	SM 2320B
Bicarbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	06/16/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	06/16/15	SM 2320B
Solids, Total Dissolved (24)	ND	1.0	0.87	1.00		mg/L	06/17/15	06/17/15	SM 2540 C
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	06/19/15	06/19/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	06/11/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0884
San Antonio, TX 78249-1618		Preparation:	N/A
		Method:	EPA 300.0
Project: EAA 27122			Page 1 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0862-10	**Sample**	**Aqueous**	**IC 10**	**N/A**	**06/11/15 13:25**	**150611S01**
15-06-0862-10	**Matrix Spike**	**Aqueous**	**IC 10**	**N/A**	**06/11/15 14:35**	**150611S01**
15-06-0862-10	**Matrix Spike Duplicate**	**Aqueous**	**IC 10**	**N/A**	**06/11/15 14:51**	**150611S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Fluoride	0.2620	250.0	257.3	103	265.5	106	80-120	3	0-20	
Chloride	950.6	5000	6428	110	6425	109	80-120	0	0-20	
Bromide	2.124	500.0	535.0	107	531.9	106	80-120	1	0-20	
Nitrate (as N)	5.228	500.0	551.3	109	548.8	109	80-120	0	0-20	
Sulfate	48.92	5000	5533	110	5549	110	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EB02	**Sample**	**Aqueous**	**ACA 1**	**N/A**	**06/13/15 14:38**	**150613S01**
EB02	**Matrix Spike**	**Aqueous**	**ACA 1**	**N/A**	**06/13/15 14:38**	**150613S01**
EB02	**Matrix Spike Duplicate**	**Aqueous**	**ACA 1**	**N/A**	**06/13/15 14:38**	**150613S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	ND	0.2000	0.2211	111	0.2262	113	90-110	2	0-25	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	06/11/15
6200 UTSA Blvd., Suite 102	Work Order:	15-06-0884
San Antonio, TX 78249-1618	Preparation:	N/A
	Method:	SM 5310 B
Project: EAA 27122		Page 3 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EB02	**Sample**	**Aqueous**	**TOC 8**	**06/19/15**	**06/19/15 22:52**	**F0619TOCS1**
EB02	**Matrix Spike**	**Aqueous**	**TOC 8**	**06/19/15**	**06/19/15 22:52**	**F0619TOCS1**
EB02	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**06/19/15**	**06/19/15 22:52**	**F0619TOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	0.7770	10.00	9.700	89	9.420	86	31-145	3	0-23	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	06/11/15
6200 UTSA Blvd., Suite 102	Work Order:	15-06-0884
San Antonio, TX 78249-1618	Preparation:	EPA 3010A Total
	Method:	EPA 6010B
Project: EAA 27122		Page 4 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-1010-11	**Sample**	**Aqueous**	**ICP 7300**	**06/15/15**	**06/16/15 14:06**	**150615SA4**
15-06-1010-11	**Matrix Spike**	**Aqueous**	**ICP 7300**	**06/15/15**	**06/16/15 14:08**	**150615SA4**
15-06-1010-11	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**06/15/15**	**06/16/15 14:09**	**150615SA4**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Calcium	36.00	0.5000	36.02	4X	36.11	4X	77-113	4X	0-11	Q
Magnesium	79.75	0.5000	79.89	4X	79.35	4X	56-140	4X	0-11	Q
Potassium	0.5344	5.000	5.794	105	6.047	110	83-131	4	0-7	
Sodium	44.98	5.000	49.93	4X	50.05	4X	73-127	4X	0-9	Q
Strontium	1.051	0.5000	1.577	105	1.604	111	81-123	2	0-6	
Silicon	13.42	0.5000	13.81	4X	13.58	4X	24-180	4X	0-15	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	06/11/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0884
San Antonio, TX 78249-1618		Preparation:	EPA 3020A Total
		Method:	EPA 6020
Project: EAA 27122			Page 5 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0784-4	**Sample**	**Aqueous**	**ICP/MS 03**	**06/12/15**	**06/15/15 19:21**	**150612SA3**
15-06-0784-4	**Matrix Spike**	**Aqueous**	**ICP/MS 03**	**06/12/15**	**06/15/15 19:04**	**150612SA3**
15-06-0784-4	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 03**	**06/12/15**	**06/15/15 19:07**	**150612SA3**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.1000	0.09791	98	0.1023	102	80-120	4	0-20	
Arsenic	ND	0.1000	0.1015	102	0.1079	108	80-120	6	0-20	
Barium	0.09502	0.1000	0.1934	98	0.2042	109	80-120	5	0-20	
Beryllium	ND	0.1000	0.09246	92	0.09985	100	80-120	8	0-20	
Cadmium	ND	0.1000	0.09231	92	0.09672	97	80-120	5	0-20	
Chromium	ND	0.1000	0.1110	111	0.1144	114	80-120	3	0-20	
Copper	0.001257	0.1000	0.1076	106	0.1147	113	80-120	6	0-20	
Lead	ND	0.1000	0.1036	104	0.1092	109	80-120	5	0-20	
Nickel	0.001860	0.1000	0.1066	105	0.1148	113	80-120	7	0-20	
Selenium	ND	0.1000	0.08518	85	0.08642	86	80-120	1	0-20	
Silver	ND	0.05000	0.04771	95	0.04936	99	80-120	3	0-20	
Thallium	ND	0.1000	0.1010	101	0.1067	107	80-120	6	0-20	
Zinc	0.008488	0.1000	0.09729	89	0.1027	94	80-120	5	0-20	
Aluminum	ND	0.1000	0.1012	101	0.1071	107	80-120	6	0-20	
Iron	0.5884	5.100	6.237	111	6.665	119	80-120	7	0-20	
Manganese	0.01884	0.1000	0.1267	108	0.1361	117	80-120	7	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	06/11/15
6200 UTSA Blvd., Suite 102	Work Order:	15-06-0884
San Antonio, TX 78249-1618	Preparation:	EPA 7470A Total
	Method:	EPA 7470A
Project: EAA 27122		Page 6 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-1127-2	**Sample**	**Aqueous**	**Mercury 04**	**06/15/15**	**06/15/15 18:35**	**150615S03**
15-06-1127-2	**Matrix Spike**	**Aqueous**	**Mercury 04**	**06/15/15**	**06/15/15 18:24**	**150615S03**
15-06-1127-2	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 04**	**06/15/15**	**06/15/15 18:26**	**150615S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.008127	81	0.008788	88	57-141	8	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-1097-2	**Sample**	**Aqueous**	**GC/MS Z**	**06/15/15**	**06/16/15 01:08**	**150615S010**
15-06-1097-2	**Matrix Spike**	**Aqueous**	**GC/MS Z**	**06/15/15**	**06/16/15 01:38**	**150615S010**
15-06-1097-2	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS Z**	**06/15/15**	**06/16/15 02:08**	**150615S010**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	54.01	108	55.06	110	74-122	2	0-21	
Carbon Tetrachloride	ND	50.00	45.83	92	47.12	94	60-144	3	0-21	
Chlorobenzene	ND	50.00	49.76	100	50.50	101	73-120	1	0-22	
1,2-Dibromoethane	ND	50.00	52.42	105	52.91	106	80-122	1	0-20	
1,2-Dichlorobenzene	ND	50.00	50.27	101	51.27	103	70-120	2	0-26	
1,2-Dichloroethane	ND	50.00	53.50	107	54.02	108	64-142	1	0-20	
1,1-Dichloroethene	ND	50.00	56.58	113	59.43	119	52-136	5	0-21	
Ethylbenzene	ND	50.00	51.96	104	52.49	105	77-125	1	0-24	
Toluene	ND	50.00	53.36	107	54.30	109	72-126	2	0-23	
Trichloroethene	ND	50.00	55.61	111	56.00	112	74-128	1	0-22	
Vinyl Chloride	ND	50.00	46.16	92	46.06	92	67-133	0	0-20	
p/m-Xylene	ND	100.0	93.65	94	95.11	95	63-129	2	0-25	
o-Xylene	ND	50.00	46.76	94	47.88	96	62-128	2	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	52.11	104	52.96	106	68-134	2	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 3020A Total
Method: EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
15-06-0784-4	**Sample**	**Aqueous**	**ICP/MS 03**	**06/12/15 00:00**	**06/15/15 19:21**	**150612SA3**
15-06-0784-4	**PDS**	**Aqueous**	**ICP/MS 03**	**06/12/15 00:00**	**06/15/15 19:11**	**150612SA3**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Antimony	ND	0.1000	0.1008	101	75-125	
Arsenic	ND	0.1000	0.1011	101	75-125	
Barium	0.09502	0.1000	0.1967	102	75-125	
Beryllium	ND	0.1000	0.09512	95	75-125	
Cadmium	ND	0.1000	0.09426	94	75-125	
Chromium	ND	0.1000	0.1082	108	75-125	
Copper	0.001257	0.1000	0.1063	105	75-125	
Lead	ND	0.1000	0.1043	104	75-125	
Nickel	0.001860	0.1000	0.1051	103	75-125	
Selenium	ND	0.1000	0.08213	82	75-125	
Silver	ND	0.05000	0.04435	89	75-125	
Thallium	ND	0.1000	0.1023	102	75-125	
Zinc	0.008488	0.1000	0.09970	91	75-125	
Aluminum	ND	0.1000	0.1024	102	75-125	
Iron	0.5884	5.100	6.014	106	75-125	
Manganese	0.01884	0.1000	0.1234	105	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-06-0773-7	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**06/16/15 17:35**	**F0616ALKD2**
15-06-0773-7	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**06/16/15 17:35**	**F0616ALKD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-06-0773-7	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**06/16/15 17:35**	**F0616HCOD2**
15-06-0773-7	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**06/16/15 17:35**	**F0616HCOD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Bicarbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
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Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-06-0773-7	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**06/16/15 17:35**	**F0616CO3D2**
15-06-0773-7	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**06/16/15 17:35**	**F0616CO3D2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Carbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-06-1111-8	**Sample**	**Aqueous**	**SC 2**	**06/17/15 00:00**	**06/17/15 19:00**	**F0617TDSD1**
15-06-1111-8	**Sample Duplicate**	**Aqueous**	**SC 2**	**06/17/15 00:00**	**06/17/15 19:00**	**F0617TDSD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	3245	3270	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: N/A
Method: SM 4500 H+ B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-06-0986-1	**Sample**	**Aqueous**	**PH 1**	**N/A**	**06/11/15 20:15**	**F0611PHD1**
15-06-0986-1	**Sample Duplicate**	**Aqueous**	**PH 1**	**N/A**	**06/11/15 20:15**	**F0611PHD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	7.170	7.160	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/11/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0884
San Antonio, TX 78249-1618		Preparation:	N/A
		Method:	EPA 300.0
Project: EAA 27122			Page 1 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-906-5828	**LCS**	**Aqueous**	**IC 10**	**N/A**	**06/11/15 10:25**	**150611L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Fluoride	2.500	2.419	97	90-110	
Chloride	50.00	52.65	105	90-110	
Bromide	5.000	5.106	102	90-110	
Nitrate (as N)	5.000	5.257	105	90-110	
Sulfate	50.00	52.70	105	90-110	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-739-107	**LCS**	**Aqueous**	**ACA 1**	**N/A**	**06/13/15 14:38**	**150613L01**
099-12-739-107	**LCSD**	**Aqueous**	**ACA 1**	**N/A**	**06/13/15 14:38**	**150613L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.2000	0.1957	98	0.1980	99	90-110	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-981-106	**LCS**	**Aqueous**	**PH1/BUR03**	**N/A**	**06/16/15 17:35**	**F0616ALKB2**
099-15-981-106	**LCSD**	**Aqueous**	**PH1/BUR03**	**N/A**	**06/16/15 17:35**	**F0616ALKB2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	10.00	10.00	100	10.00	100	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-180-4633	**LCS**	**Aqueous**	**SC 2**	**06/17/15**	**06/17/15 19:00**	**F0617TDSL1**
099-12-180-4633	**LCSD**	**Aqueous**	**SC 2**	**06/17/15**	**06/17/15 19:00**	**F0617TDSL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100.0	85.00	85	90.00	90	80-120	6	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-5675	**LCS**	**Aqueous**	**TOC 8**	**06/19/15**	**06/19/15 22:52**	**F0619TOCL1**
099-05-097-5675	**LCSD**	**Aqueous**	**TOC 8**	**06/19/15**	**06/19/15 22:52**	**F0619TOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	10.00	8.700	87	9.320	93	80-120	7	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/11/15
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San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B
Project: EAA 27122			Page 6 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-683-1299	**LCS**	**Aqueous**	**ICP 7300**	**06/15/15**	**06/16/15 11:29**	**150615LA4F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Calcium	0.5000	0.5004	100	80-120	
Magnesium	0.5000	0.5464	109	80-120	
Potassium	5.000	5.072	101	80-120	
Sodium	5.000	5.025	101	80-120	
Strontium	0.5000	0.5134	103	80-120	
Silicon	0.5000	0.4580	92	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

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San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: EAA 27122			Page 7 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-693-844	**LCS**	**Aqueous**	**ICP/MS 03**	**06/12/15**	**06/15/15 19:00**	**150612LA3F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.1000	0.09679	97	80-120	73-127	
Arsenic	0.1000	0.1032	103	80-120	73-127	
Barium	0.1000	0.09541	95	80-120	73-127	
Beryllium	0.1000	0.1007	101	80-120	73-127	
Cadmium	0.1000	0.09663	97	80-120	73-127	
Chromium	0.1000	0.1054	105	80-120	73-127	
Copper	0.1000	0.1056	106	80-120	73-127	
Lead	0.1000	0.09719	97	80-120	73-127	
Nickel	0.1000	0.1039	104	80-120	73-127	
Selenium	0.1000	0.09973	100	80-120	73-127	
Silver	0.05000	0.04529	91	80-120	73-127	
Thallium	0.1000	0.09394	94	80-120	73-127	
Zinc	0.1000	0.1074	107	80-120	73-127	
Aluminum	0.1000	0.1033	103	80-120	73-127	
Iron	5.100	5.389	106	80-120	73-127	
Manganese	0.1000	0.1063	106	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

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San Antonio, TX 78249-1618		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A
Project: EAA 27122			Page 8 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-763-571	**LCS**	**Aqueous**	**Mercury 04**	**06/15/15**	**06/15/15 18:13**	**150615L03F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.01023	102	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 3510C
Method: EPA 8081A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-817	**LCS**	**Aqueous**	**GC 41**	**06/15/15**	**06/17/15 18:06**	**150615L01B**
099-12-529-817	**LCSD**	**Aqueous**	**GC 41**	**06/15/15**	**06/17/15 18:21**	**150615L01B**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.5132	103	0.5162	103	50-135	36-149	1	0-25	
Gamma-BHC	0.5000	0.5555	111	0.5549	111	50-135	36-149	0	0-25	
Beta-BHC	0.5000	0.4180	84	0.4220	84	50-135	36-149	1	0-25	
Heptachlor	0.5000	0.4800	96	0.4578	92	50-135	36-149	5	0-25	
Delta-BHC	0.5000	0.5110	102	0.4912	98	50-135	36-149	4	0-25	
Aldrin	0.5000	0.4622	92	0.4394	88	50-135	36-149	5	0-25	
Heptachlor Epoxide	0.5000	0.4966	99	0.5009	100	50-135	36-149	1	0-25	
Endosulfan I	0.5000	0.4422	88	0.4503	90	50-135	36-149	2	0-25	
Dieldrin	0.5000	0.4442	89	0.4501	90	50-135	36-149	1	0-25	
4,4'-DDE	0.5000	0.5264	105	0.5205	104	50-135	36-149	1	0-25	
Endrin	0.5000	0.5963	119	0.5986	120	50-135	36-149	0	0-25	
Endrin Aldehyde	0.5000	0.4765	95	0.4809	96	50-135	36-149	1	0-25	
4,4'-DDD	0.5000	0.5831	117	0.6197	124	50-135	36-149	6	0-25	
Endosulfan II	0.5000	0.4348	87	0.4520	90	50-135	36-149	4	0-25	
4,4'-DDT	0.5000	0.2994	60	0.3084	62	50-135	36-149	3	0-25	
Endosulfan Sulfate	0.5000	0.4985	100	0.5081	102	50-135	36-149	2	0-25	
Methoxychlor	0.5000	0.2688	54	0.2801	56	50-135	36-149	4	0-25	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 3510C
Method: EPA 8082

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1052	**LCS**	**Aqueous**	**GC 41**	**06/15/15**	**06/16/15 00:24**	**150615L01**
099-12-533-1052	**LCSD**	**Aqueous**	**GC 41**	**06/15/15**	**06/16/15 00:39**	**150615L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	1.837	92	1.844	92	50-135	0	0-25	
Aroclor-1260	2.000	2.291	115	1.974	99	50-135	15	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 3510C
Method: EPA 8141A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-963-99	**LCS**	**Aqueous**	**GC 26**	**06/12/15**	**06/16/15 21:17**	**150612L11**
099-15-963-99	**LCSD**	**Aqueous**	**GC 26**	**06/12/15**	**06/16/15 22:01**	**150612L11**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	0.04000	0.04122	103	0.04086	102	30-130	13-147	1	0-30	
Bolstar	0.04000	0.04824	121	0.04466	112	30-130	13-147	8	0-30	
Chlorpyrifos	0.04000	0.04567	114	0.04151	104	30-130	13-147	10	0-30	
Coumaphos	0.04000	0.04288	107	0.04187	105	30-130	13-147	2	0-30	
Diazinon	0.04000	0.04904	123	0.04466	112	30-130	13-147	9	0-30	
Disulfoton	0.04000	0.05134	128	0.05013	125	30-130	13-147	2	0-30	
Ethoprop	0.04000	0.05132	128	0.04613	115	30-130	13-147	11	0-30	
Fensulfothion	0.04000	0.04716	118	0.04446	111	30-130	13-147	6	0-30	
Fenthion	0.04000	0.04909	123	0.04464	112	30-130	13-147	9	0-30	
Merphos	0.04000	0.04695	117	0.04267	107	30-130	13-147	10	0-30	
Methyl Parathion	0.04000	0.04531	113	0.04105	103	30-130	13-147	10	0-30	
Phorate	0.04000	0.04349	109	0.04377	109	30-130	13-147	1	0-30	
Ronnel	0.04000	0.04424	111	0.04011	100	30-130	13-147	10	0-30	
Stirophos	0.04000	0.03888	97	0.03526	88	30-130	13-147	10	0-30	
Tokuthion	0.04000	0.05031	126	0.04818	120	30-130	13-147	4	0-30	
Trichloronate	0.04000	0.04643	116	0.04206	105	30-130	13-147	10	0-30	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 8151A
Method: EPA 8151A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-034-648	**LCS**	**Aqueous**	**GC 40**	**06/12/15**	**06/16/15 17:37**	**150612L12**
095-01-034-648	**LCSD**	**Aqueous**	**GC 40**	**06/12/15**	**06/16/15 18:00**	**150612L12**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	20.00	15.30	76	16.88	84	30-130	10	0-30	
2,4,5-T	2.000	1.545	77	1.685	84	30-130	9	0-30	
2,4-DB	20.00	15.28	76	16.26	81	30-130	6	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 06/11/15
Work Order: 15-06-0884
Preparation: EPA 3510C
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-4053	**LCS**	**Aqueous**	**GC/MS SS**	**06/12/15**	**06/13/15 16:38**	**150612L03**
095-01-003-4053	**LCSD**	**Aqueous**	**GC/MS SS**	**06/12/15**	**06/13/15 16:58**	**150612L03**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	100.0	100.4	100	100.7	101	61-120	51-130	0	0-20	
Acenaphthylene	100.0	97.82	98	97.85	98	55-120	44-131	0	0-20	
Butyl Benzyl Phthalate	100.0	97.05	97	96.07	96	56-122	45-133	1	0-20	
4-Chloro-3-Methylphenol	100.0	90.94	91	88.20	88	52-120	41-131	3	0-20	
2-Chlorophenol	100.0	89.50	90	87.19	87	47-120	35-132	3	0-20	
1,4-Dichlorobenzene	100.0	64.79	65	60.05	60	36-120	22-134	8	0-20	
Dimethyl Phthalate	100.0	101.4	101	101.3	101	60-120	50-130	0	0-20	
2,4-Dinitrotoluene	100.0	121.3	121	121.4	121	61-121	51-131	0	0-20	
Fluorene	100.0	105.3	105	103.3	103	67-120	58-129	2	0-20	
N-Nitroso-di-n-propylamine	100.0	81.74	82	81.19	81	39-123	25-137	1	0-20	
Naphthalene	100.0	81.91	82	78.06	78	54-120	43-131	5	0-20	
4-Nitrophenol	100.0	49.71	50	47.00	47	14-120	0-138	6	0-20	
Pentachlorophenol	100.0	84.07	84	84.13	84	31-127	15-143	0	0-20	
Phenol	100.0	41.40	41	40.75	41	17-120	0-137	2	0-20	
Pyrene	100.0	96.01	96	94.06	94	58-124	47-135	2	0-20	
1,2,4-Trichlorobenzene	100.0	76.35	76	70.36	70	49-120	37-132	8	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	06/11/15
6200 UTSA Blvd., Suite 102		Work Order:	15-06-0884
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 14 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-17406	**LCS**	**Aqueous**	**GC/MS Z**	**06/15/15**	**06/15/15 23:37**	**150615L021**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	54.96	110	80-120	73-127	
Carbon Tetrachloride	50.00	46.32	93	67-139	55-151	
Chlorobenzene	50.00	51.07	102	78-120	71-127	
1,2-Dibromoethane	50.00	54.12	108	80-120	73-127	
1,2-Dichlorobenzene	50.00	51.92	104	63-129	52-140	
1,2-Dichloroethane	50.00	54.23	108	70-130	60-140	
1,1-Dichloroethene	50.00	57.78	116	66-126	56-136	
Ethylbenzene	50.00	53.10	106	80-123	73-130	
Toluene	50.00	54.81	110	80-120	73-127	
Trichloroethene	50.00	57.32	115	80-122	73-129	
Vinyl Chloride	50.00	45.62	91	70-130	60-140	
p/m-Xylene	100.0	97.35	97	75-123	67-131	
o-Xylene	50.00	48.32	97	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	56.94	114	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 15-06-0884 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **15-06-0884**

DATE: 06/10/15

PAGE: 1 OF 1

LABORATORY CLIENT: SWCA Environmental Consultants

ADDRESS: 6200 UTSA Blvd. Suite 102

CITY: San Antonio STATE: TX ZIP: 78249-1618

TEL: 210.877.2847 E-MAIL: PPearce@swca.com

CLIENT PROJECT NAME / NUMBER: EAA 27122

P.O. NO.:

PROJECT CONTACT: Philip Pearce

SAMPLER(S): (PRINT) Philip Pearce, Jennifer Moreland

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 10 Days (standard)

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Please analyze each sample for pH

EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 6010B (Si, Ca, Mg, K, Na, Sr)	EPA 6020 (See Comments)	EPA 7470A Mercury	EPA 1694 (M) Caffeine	EPA 8081A Organochlorine Pesticides	EPA 8082 PCB Aroclors	EPA 8141A Organophosphorus Pest	EPA 8151A Chlorinated Herbicides	EPA 8270C Semi-Volatile Organics	EPA 8260B Volatile Organics	EPA 300 Anions (F, Cl, Br, NO3, SO4)	EPA 365.1 Total Phosphorus	SM 2320B Alkalinity: Total, Bicarb, Carb	SM 5310B TOC	9040C pH	SM 5310B Solids, Total Dissolved	SM 4500 N Org B TKN	EPA 160.2 TSS
(1)	EB02	6/10/2015	1326	NPW	9	2	7	1	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		

Relinquished by: (Signature) Jen Moreland SWCA	Received by: (Signature/Affiliation)	Date: 6/10/15	Time: 1410
Relinquished by: (Signature) (Fed-ex)	Received by: (Signature/Affiliation) EL	Date: 6/11/15	Time: 0935
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

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FedEx Express Package US Airbill

FedEx Tracking Number 8062 7398 5440

0215

MUR

Recipient

1 From

Date

Sender's Name Phil Pearce Phone 210 877-2947

Company SWCA INC

Address 6200 UTSA BLVD STE 102 Dept./Floor/Suite/Room

City SAN ANTONIO State TX ZIP 78249-1618

2 Your Internal Billing Reference 27122.02.05

3 To

Recipient's Name Phone 714 895-5494

Company Calscience

Address 3990 Old Town Ave Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Santa Ana State CA ZIP 92841

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0115649666

4 Express Package Service * To most locations

NOTE: Service order has changed. Please select carefully.

Packages u

For packages over FedEx Express F

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipme will be delivered on Monday unless SATURDA Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [x] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirec — If no one i address, address n residentia

Does this shipment contain dangerous goods?

One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x
- [ ] Cargo Aircraft

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card

Total Packages 1 Total Weight 10 lbs.

Credit Card Auth.

*Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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WORK ORDER NUMBER: 15-06- 0884

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: SWCA Env'l. Consultants

DATE: 06 / 11 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 2.7 °C (w/ CF): 2.4 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 836

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 836

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SW

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ 3 VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 4 250CGB**s** ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 G Tube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: SW

Reviewed by: 836

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 210 Lead
Sample Number: AA92419
Sample Matrix: Non Potable Water

Collection Date/Time: 1/22/15 00:36
Receipt Date/Time: 1/22/15 10:41

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time was exceeded, per customer proceed with analyses.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92419-A	E. coli	√	SM 9223B-2004	2200	MPN/100 mL	H	1	41460	1/22/15	13:20	RSC
AA92419-A	E. Coli Holding Time - IDEXX Colilert		NA	12.73	hours		0.00	41459	1/22/15	13:20	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-41460

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

1/24/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 240 Lead
Sample Number: AA92420
Sample Matrix: Non Potable Water

Collection Date/Time: 1/22/15 00:51
Receipt Date/Time: 1/22/15 10:41

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time was exceeded, per customer proceed with analyses.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92420-A	E. coli	√	SM 9223B-2004	910	MPN/100 mL	H	1	41460	1/22/15	13:20	RSC
AA92420-A	E. Coli Holding Time - IDEXX Colilert		NA	12.48	hours		0.00	41459	1/22/15	13:20	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-41460

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

1/24/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 250 Lead
Sample Number: AA92421
Sample Matrix: Non Potable Water

Collection Date/Time: 1/22/15 00:35
Receipt Date/Time: 1/22/15 10:41

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time was exceeded, per customer proceed with analyses.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92421-A	E. coli	√	SM 9223B-2004	630	MPN/100 mL	H	1	41460	1/22/15	13:20	RSC
AA92421-A	E. Coli Holding Time - IDEXX Colilert		NA	12.75	hours		0.00	41459	1/22/15	13:20	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-41460

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

1/24/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 260 Lead
Sample Number: AA92422
Sample Matrix: Non Potable Water

Collection Date/Time: 1/22/15 01:10
Receipt Date/Time: 1/22/15 10:41

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time was exceeded, per customer proceed with analyses.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92422-A	E. coli	√	SM 9223B-2004	370	MPN/100 mL	H	1	41460	1/22/15	13:20	RSC
AA92422-A	E. Coli Holding Time - IDEXX Colilert		NA	12.17	hours		0.00	41459	1/22/15	13:20	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-41460

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

1/24/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 270 Lead
Sample Number: AA92423
Sample Matrix: Non Potable Water

Collection Date/Time: 1/22/15 00:54
Receipt Date/Time: 1/22/15 10:41

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time was exceeded, per customer proceed with analyses.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92423-A	E. coli	√	SM 9223B-2004	1300	MPN/100 mL	H	1	41460	1/22/15	13:20	RSC
AA92423-A	E. Coli Holding Time - IDEXX Colilert		NA	12.43	hours		0.00	41459	1/22/15	13:20	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-41460

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

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Water Quality Planner / QAO

1/24/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 210 Peak
Sample Number: AA92424
Sample Matrix: Non Potable Water

Collection Date/Time: 1/22/15 08:14
Receipt Date/Time: 1/22/15 10:42

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Analysis Comments:
AA92424-A E. Coli Holding Time - IDEXX Colilert
Not analyzed per customer request.
AA92424-A E. coli
Not analyzed per customer request.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92424-A	E. coli	√	SM 9223B-2004	Scratched	MPN/100 mL	*			1/23/15	11:08	JLM
AA92424-A	E. Coli Holding Time - IDEXX Colilert		NA	Scratched	hours	*			1/23/15	11:08	JLM

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

1/27/2015

Jeanette Hernandez
Water Quality Planner / QAO

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 240 Peak
Sample Number: AA92425
Sample Matrix: Non Potable Water

Collection Date/Time: 1/22/15 08:31
Receipt Date/Time: 1/22/15 10:42

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Analysis Comments:
AA92425-A E. Coli Holding Time - IDEXX Colilert
Not analyzed per customer request.
AA92425-A E. coli
Not analyzed per customer request.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92425-A	E. coli	√	SM 9223B-2004	Scratched	MPN/100 mL	*			1/23/15	11:08	JLM
AA92425-A	E. Coli Holding Time - IDEXX Colilert		NA	Scratched	hours	*			1/23/15	11:08	JLM

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

1/27/2015

Jeanette Hernandez
Water Quality Planner / QAO

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 250 Peak
Sample Number: AA92426
Sample Matrix: Non Potable Water

Collection Date/Time: 1/22/15 08:10
Receipt Date/Time: 1/22/15 10:42

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Analysis Comments:
AA92426-A E. Coli Holding Time - IDEXX Colilert
Not analyzed per customer request.
AA92426-A E. coli
Not analyzed per customer request.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92426-A	E. coli	√	SM 9223B-2004	Scratched	MPN/100 mL	*			1/23/15	11:08	JLM
AA92426-A	E. Coli Holding Time - IDEXX Colilert		NA	Scratched	hours	*			1/23/15	11:08	JLM

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

1/27/2015

Jeanette Hernandez
Water Quality Planner / QAO

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 260 Peak
Sample Number: AA92427
Sample Matrix: Non Potable Water

Collection Date/Time: 1/22/15 08:43
Receipt Date/Time: 1/22/15 10:42

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Analysis Comments:
AA92427-A E. Coli Holding Time - IDEXX Colilert
Not analyzed per customer request.
AA92427-A E. coli
Not analyzed per customer request.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92427-A	E. coli	√	SM 9223B-2004	Scratched	MPN/100 mL	*			1/23/15	11:08	JLM
AA92427-A	E. Coli Holding Time - IDEXX Colilert		NA	Scratched	hours	*			1/23/15	11:08	JLM

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

1/27/2015

Jeanette Hernandez
Water Quality Planner / QAO

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 270 Peak
Sample Number: AA92428
Sample Matrix: Non Potable Water

Collection Date/Time: 1/22/15 08:30
Receipt Date/Time: 1/22/15 10:42

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Analysis Comments:
AA92428-A E. Coli Holding Time - IDEXX Colilert
Not analyzed per customer request.
AA92428-A E. coli
Not analyzed per customer request.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92428-A	E. coli	√	SM 9223B-2004	Scratched	MPN/100 mL	*			1/23/15	11:08	JLM
AA92428-A	E. Coli Holding Time - IDEXX Colilert		NA	Scratched	hours	*			1/23/15	11:08	JLM

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

1/27/2015

Jeanette Hernandez
Water Quality Planner / QAO

Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 210 Peak
Sample Number: AA92461
Sample Matrix: Non Potable Water

Collection Date/Time: 1/22/15 16:28
Receipt Date/Time: 1/23/15 09:00

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time was exceeded, per customer proceed with analyses. A discrepancy was noted on the COC at sample validation. A time gap exists between a time of relinquish and a time of receipt. This occurred prior to sample submission to the laboratory.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92461-A	E. coli	√	SM 9223B-2004	1600	MPN/100 mL	H	1	41481	1/23/15	15:03	RSC/MAG
AA92461-A	E. Coli Holding Time - IDEXX Colilert		NA	22.58	hours		0.00	41479	1/23/15	15:03	RSC/MAG

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-41481

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

1/27/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 240 Peak
Sample Number: AA92462
Sample Matrix: Non Potable Water

Collection Date/Time: 1/22/15 16:51
Receipt Date/Time: 1/23/15 09:00

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time was exceeded, per customer proceed with analyses. A discrepancy was noted on the COC at sample validation. A time gap exists between a time of relinquish and a time of receipt. This occurred prior to sample submission to the laboratory.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92462-A	E. coli	√	SM 9223B-2004	550	MPN/100 mL	H	1	41481	1/23/15	15:03	RSC/MAG
AA92462-A	E. Coli Holding Time - IDEXX Colilert		NA	22.20	hours		0.00	41479	1/23/15	15:03	RSC/MAG

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-41481

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

1/27/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 250 Peak
Sample Number: AA92463
Sample Matrix: Non Potable Water

Collection Date/Time: 1/22/15 16:40
Receipt Date/Time: 1/23/15 09:00

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time was exceeded, per customer proceed with analyses. A discrepancy was noted on the COC at sample validation. A time gap exists between a time of relinquish and a time of receipt. This occurred prior to sample submission to the laboratory.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92463-A	E. coli	√	SM 9223B-2004	1800	MPN/100 mL	H	1	41481	1/23/15	15:03	RSC/MAG
AA92463-A	E. Coli Holding Time - IDEXX Colilert		NA	22.38	hours		0.00	41479	1/23/15	15:03	RSC/MAG

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-41481

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

1/27/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 260 Peak
Sample Number: AA92464
Sample Matrix: Non Potable Water

Collection Date/Time: 1/22/15 17:03
Receipt Date/Time: 1/23/15 09:00

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time was exceeded, per customer proceed with analyses. A discrepancy was noted on the COC at sample validation. A time gap exists between a time of relinquish and a time of receipt. This occurred prior to sample submission to the laboratory.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92464-A	E. coli	√	SM 9223B-2004	10000	MPN/100 mL	H	1	41481	1/23/15	15:03	RSC/MAG
AA92464-A	E. Coli Holding Time - IDEXX Colilert		NA	22.00	hours		0.00	41479	1/23/15	15:03	RSC/MAG

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-41481

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

1/27/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 270 Peak
Sample Number: AA92465
Sample Matrix: Non Potable Water

Collection Date/Time: 1/22/15 16:55
Receipt Date/Time: 1/23/15 09:00

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time was exceeded, per customer proceed with analyses. A discrepancy was noted on the COC at sample validation. A time gap exists between a time of relinquish and a time of receipt. This occurred prior to sample submission to the laboratory.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92465-A	E. coli	√	SM 9223B-2004	5500	MPN/100 mL	H	1	41481	1/23/15	15:03	RSC/MAG
AA92465-A	E. Coli Holding Time - IDEXX Colilert		NA	22.13	hours		0.00	41479	1/23/15	15:03	RSC/MAG

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
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600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-41481

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

1/27/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
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P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 210 Trail
Sample Number: AA92466
Sample Matrix: Non Potable Water

Collection Date/Time: 1/23/15 03:01
Receipt Date/Time: 1/23/15 09:00

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time was exceeded, per customer proceed with analyses.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92466-A	E. coli	√	SM 9223B-2004	880	MPN/100 mL	H	1	41481	1/23/15	15:03	RSC/MAG
AA92466-A	E. Coli Holding Time - IDEXX Colilert		NA	12.03	hours		0.00	41479	1/23/15	15:03	RSC/MAG

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-41481

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

1/27/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 240 Trail
Sample Number: AA92467
Sample Matrix: Non Potable Water

Collection Date/Time: 1/23/15 03:21
Receipt Date/Time: 1/23/15 09:00

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time was exceeded, per customer proceed with analyses.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92467-A	E. coli	√	SM 9223B-2004	110	MPN/100 mL	H	1	41481	1/23/15	15:03	RSC/MAG
AA92467-A	E. Coli Holding Time - IDEXX Colilert		NA	11.70	hours		0.00	41479	1/23/15	15:03	RSC/MAG

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-41481

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

1/27/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 250 Trail
Sample Number: AA92468
Sample Matrix: Non Potable Water

Collection Date/Time: 1/23/15 03:03
Receipt Date/Time: 1/23/15 09:00

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time was exceeded, per customer proceed with analyses.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92468-A	E. coli	√	SM 9223B-2004	340	MPN/100 mL	H	1	41482	1/23/15	15:03	RSC/MAG
AA92468-A	E. Coli Holding Time - IDEXX Colilert		NA	12.00	hours		0.00	41480	1/23/15	15:03	RSC/MAG

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-41482

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent		H	---	Absent	---
Log Range for E. coli	0.1246		H	0.0	---	0.5

Jeanette Hernandez
Water Quality Planner / QAO

1/27/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 260 Trail
Sample Number: AA92469
Sample Matrix: Non Potable Water

Collection Date/Time: 1/23/15 03:36
Receipt Date/Time: 1/23/15 09:00

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time was exceeded, per customer proceed with analyses.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92469-A	E. coli	√	SM 9223B-2004	2300	MPN/100 mL	H	1	41482	1/23/15	15:03	RSC/MAG
AA92469-A	E. Coli Holding Time - IDEXX Colilert		NA	11.45	hours		0.00	41480	1/23/15	15:03	RSC/MAG

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-41482

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent		H	---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

1/27/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS 270 Trail
Sample Number: AA92470
Sample Matrix: Non Potable Water

Collection Date/Time: 1/23/15 03:30
Receipt Date/Time: 1/23/15 09:00

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time was exceeded, per customer proceed with analyses.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92470-A	E. coli	√	SM 9223B-2004	4400	MPN/100 mL	H	1	41482	1/23/15	15:03	RSC/MAG
AA92470-A	E. Coli Holding Time - IDEXX Colilert		NA	11.55	hours		0.00	41480	1/23/15	15:03	RSC/MAG

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-41482

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent		H	---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

1/27/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: FD HCS 260 Trail
Sample Number: AA92471
Sample Matrix: Non Potable Water

Collection Date/Time: 1/23/15 03:36
Receipt Date/Time: 1/23/15 09:00

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time was exceeded, per customer proceed with analyses.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92471-A	E. coli	√	SM 9223B-2004	3400	MPN/100 mL	H	1	41482	1/23/15	15:03	RSC/MAG
AA92471-A	E. Coli Holding Time - IDEXX Colilert		NA	11.45	hours		0.00	41480	1/23/15	15:03	RSC/MAG

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-41482

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent		H	---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

1/27/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: FD HCS 270 Trail
Sample Number: AA92472
Sample Matrix: Non Potable Water

Collection Date/Time: 1/23/15 03:30
Receipt Date/Time: 1/23/15 09:00

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time was exceeded, per customer proceed with analyses.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA92472-A	E. coli	√	SM 9223B-2004	2500	MPN/100 mL	H	1	41482	1/23/15	15:03	RSC/MAG
AA92472-A	E. Coli Holding Time - IDEXX Colilert		NA	11.55	hours		0.00	41480	1/23/15	15:03	RSC/MAG

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-41482

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent		H	---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

1/27/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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WORK ORDER NUMBER: 15-01-1404

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: SWCA Environmental Consultants

Client Project Name: EAA 27122

Attention: Philip Pearce
6200 UTSA Blvd.
Suite 102
San Antonio, TX 78249-1618

Approved for release on 02/09/2015 by:
Don Burley
Project Manager

ResultLink

Email your PM

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Contents

Client Project Name: EAA 27122
Work Order Number: 15-01-1404

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Work Order Narrative

Work Order: 15-01-1404 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 01/23/15. They were assigned to Work Order 15-01-1404.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

EPA 6010B Silicon LCS recovery was below the control limits. Silicon was detected in each of the samples. The results may be biased low.
EPA 8141A Merphos LCS and LCSD recoveries were above the control limits. Merphos was not detected in the samples. The results are reported without further clarification.

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Sample Summary

Client:	SWCA Environmental Consultants	Work Order:	15-01-1404
	6200 UTSA Blvd., Suite 102	Project Name:	EAA 27122
	San Antonio, TX 78249-1618	PO Number:	
		Date/Time Received:	01/23/15 10:00
		Number of Containers:	45
Attn:	Philip Pearce		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
HCS 210 Lead	15-01-1404-1	01/22/15 00:36	9	Aqueous
HCS 240 Lead	15-01-1404-2	01/22/15 00:51	9	Aqueous
HCS 250 Lead	15-01-1404-3	01/22/15 00:35	9	Aqueous
HCS 260 Lead	15-01-1404-4	01/22/15 01:10	9	Aqueous
HCS 270 Lead	15-01-1404-5	01/22/15 00:54	9	Aqueous

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-01-1404-1-F**	**01/22/15 00:36**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 18:24**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	15.4	0.100	0.0118	1.00	
Magnesium	1.05	0.100	0.00336	1.00	B
Potassium	2.02	0.500	0.103	1.00	
Sodium	0.624	0.500	0.103	1.00	
Strontium	0.0466	0.0300	0.00277	1.00	
Silicon	0.842	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Lead	**15-01-1404-2-F**	**01/22/15 00:51**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 18:31**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	73.9	0.100	0.0118	1.00	
Magnesium	14.4	0.100	0.00336	1.00	B
Potassium	1.77	0.500	0.103	1.00	
Sodium	11.4	0.500	0.103	1.00	
Strontium	0.626	0.0300	0.00277	1.00	
Silicon	3.47	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-01-1404-3-F**	**01/22/15 00:35**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 18:32**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	73.2	0.100	0.0118	1.00	
Magnesium	14.2	0.100	0.00336	1.00	B
Potassium	1.58	0.500	0.103	1.00	
Sodium	11.2	0.500	0.103	1.00	
Strontium	0.622	0.0300	0.00277	1.00	
Silicon	3.36	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Lead	**15-01-1404-4-F**	**01/22/15 01:10**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 18:34**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	75.1	0.100	0.0118	1.00	
Magnesium	14.5	0.100	0.00336	1.00	B
Potassium	1.53	0.500	0.103	1.00	
Sodium	12.6	0.500	0.103	1.00	
Strontium	0.637	0.0300	0.00277	1.00	
Silicon	3.33	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-01-1404-5-F**	**01/22/15 00:54**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 18:36**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	67.3	0.100	0.0118	1.00	
Magnesium	13.2	0.100	0.00336	1.00	B
Potassium	1.76	0.500	0.103	1.00	
Sodium	11.7	0.500	0.103	1.00	
Strontium	0.571	0.0300	0.00277	1.00	
Silicon	3.11	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-683-1120**	**N/A**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 17:52**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	ND	0.100	0.0118	1.00	
Magnesium	0.0522	0.100	0.00336	1.00	J
Potassium	ND	0.500	0.103	1.00	
Sodium	ND	0.500	0.103	1.00	
Strontium	ND	0.0300	0.00277	1.00	
Silicon	ND	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-01-1404-1-F**	**01/22/15 00:36**	**Aqueous**	**ICP/MS 03**	**01/26/15**	**01/27/15 13:20**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000288	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.00845	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00148	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.000670	0.00100	0.000132	1.00	J
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00431	0.00500	0.000479	1.00	J
Aluminum	0.0115	0.0500	0.00331	1.00	J
Iron	0.0168	0.0500	0.00926	1.00	J
Manganese	0.00315	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Lead	**15-01-1404-2-F**	**01/22/15 00:51**	**Aqueous**	**ICP/MS 03**	**01/26/15**	**01/27/15 13:23**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000113	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0567	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000650	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00161	0.00100	0.000132	1.00	
Selenium	0.000312	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00549	0.00500	0.000479	1.00	
Aluminum	0.0160	0.0500	0.00331	1.00	J
Iron	0.0564	0.0500	0.00926	1.00	
Manganese	0.00186	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-01-1404-3-F**	**01/22/15 00:35**	**Aqueous**	**ICP/MS 03**	**01/26/15**	**01/27/15 13:26**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000113	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0539	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000819	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00155	0.00100	0.000132	1.00	
Selenium	0.000333	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00891	0.00500	0.000479	1.00	
Aluminum	0.00613	0.0500	0.00331	1.00	J
Iron	0.0536	0.0500	0.00926	1.00	
Manganese	0.00205	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Lead	**15-01-1404-4-F**	**01/22/15 01:10**	**Aqueous**	**ICP/MS 03**	**01/26/15**	**01/27/15 13:30**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0546	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000651	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00168	0.00100	0.000132	1.00	
Selenium	0.000335	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00195	0.00500	0.000479	1.00	J
Aluminum	0.00950	0.0500	0.00331	1.00	J
Iron	0.0440	0.0500	0.00926	1.00	J
Manganese	0.00260	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-01-1404-5-F**	**01/22/15 00:54**	**Aqueous**	**ICP/MS 03**	**01/26/15**	**01/27/15 13:33**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000194	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0494	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000789	0.00100	0.000140	1.00	J
Lead	0.0000928	0.00100	0.0000898	1.00	J
Nickel	0.00145	0.00100	0.000132	1.00	
Selenium	0.000350	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0146	0.00500	0.000479	1.00	
Aluminum	0.00488	0.0500	0.00331	1.00	J
Iron	0.0249	0.0500	0.00926	1.00	J
Manganese	0.00226	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-693-719**	**N/A**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 08:18**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	ND	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	ND	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	ND	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	ND	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	ND	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-01-1404-1-F**	**01/22/15 00:36**	**Aqueous**	**Mercury 04**	**01/29/15**	**01/29/15 17:28**	**150129L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Lead	**15-01-1404-2-F**	**01/22/15 00:51**	**Aqueous**	**Mercury 04**	**01/29/15**	**01/29/15 17:30**	**150129L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-01-1404-3-F**	**01/22/15 00:35**	**Aqueous**	**Mercury 04**	**01/29/15**	**01/29/15 17:32**	**150129L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Lead	**15-01-1404-4-F**	**01/22/15 01:10**	**Aqueous**	**Mercury 04**	**01/29/15**	**01/29/15 17:35**	**150129L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-01-1404-5-F**	**01/22/15 00:54**	**Aqueous**	**Mercury 04**	**01/29/15**	**01/29/15 17:37**	**150129L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-763-484**	**N/A**	**Aqueous**	**Mercury 04**	**01/29/15**	**01/29/15 17:01**	**150129L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
Units: ng/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-01-1404-1-I**	**01/22/15 00:36**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**02/02/15 18:49**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	480	100	10.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	45	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Lead	**15-01-1404-2-I**	**01/22/15 00:51**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**01/31/15 13:16**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	47	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	54	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-01-1404-3-I**	**01/22/15 00:35**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**01/31/15 13:25**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	55	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	46	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Lead	**15-01-1404-4-I**	**01/22/15 01:10**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**01/31/15 13:33**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	57	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	48	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-01-1404-5-I**	**01/22/15 00:54**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**01/31/15 17:44**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	95	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	47	31-200	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
Units: ng/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-376-10**	**N/A**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**01/31/15 17:06**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	49	31-200	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-01-1404-1-I**	**01/22/15 00:36**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 07:57**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.099	0.028	1.00	
Gamma-BHC	ND	0.099	0.030	1.00	
Beta-BHC	ND	0.099	0.030	1.00	
Heptachlor	ND	0.099	0.026	1.00	
Delta-BHC	ND	0.099	0.028	1.00	
Aldrin	ND	0.099	0.026	1.00	
Heptachlor Epoxide	ND	0.099	0.025	1.00	
Endosulfan I	ND	0.099	0.028	1.00	
Dieldrin	ND	0.099	0.028	1.00	
4,4'-DDE	ND	0.099	0.026	1.00	
Endrin	ND	0.099	0.030	1.00	
Endrin Aldehyde	ND	0.099	0.026	1.00	
4,4'-DDD	ND	0.099	0.027	1.00	
Endosulfan II	ND	0.099	0.027	1.00	
4,4'-DDT	ND	0.099	0.026	1.00	
Endosulfan Sulfate	ND	0.099	0.029	1.00	
Methoxychlor	ND	0.099	0.025	1.00	
Chlordane	ND	0.99	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.099	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	50-135	
2,4,5,6-Tetrachloro-m-Xylene	98	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Lead	**15-01-1404-2-I**	**01/22/15 00:51**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 08:12**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.096	0.027	1.00	
Gamma-BHC	ND	0.096	0.029	1.00	
Beta-BHC	ND	0.096	0.029	1.00	
Heptachlor	ND	0.096	0.025	1.00	
Delta-BHC	ND	0.096	0.027	1.00	
Aldrin	ND	0.096	0.026	1.00	
Heptachlor Epoxide	ND	0.096	0.024	1.00	
Endosulfan I	ND	0.096	0.027	1.00	
Dieldrin	ND	0.096	0.027	1.00	
4,4'-DDE	ND	0.096	0.026	1.00	
Endrin	ND	0.096	0.029	1.00	
Endrin Aldehyde	ND	0.096	0.025	1.00	
4,4'-DDD	ND	0.096	0.026	1.00	
Endosulfan II	ND	0.096	0.026	1.00	
4,4'-DDT	ND	0.096	0.026	1.00	
Endosulfan Sulfate	ND	0.096	0.028	1.00	
Methoxychlor	ND	0.096	0.024	1.00	
Chlordane	ND	0.96	0.32	1.00	
Toxaphene	ND	1.9	0.57	1.00	
Endrin Ketone	ND	0.096	0.023	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	105	50-135	
2,4,5,6-Tetrachloro-m-Xylene	97	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-01-1404-3-I**	**01/22/15 00:35**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 08:26**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.095	0.027	1.00	
Gamma-BHC	ND	0.095	0.029	1.00	
Beta-BHC	ND	0.095	0.029	1.00	
Heptachlor	ND	0.095	0.025	1.00	
Delta-BHC	ND	0.095	0.027	1.00	
Aldrin	ND	0.095	0.025	1.00	
Heptachlor Epoxide	ND	0.095	0.024	1.00	
Endosulfan I	ND	0.095	0.026	1.00	
Dieldrin	ND	0.095	0.027	1.00	
4,4'-DDE	ND	0.095	0.025	1.00	
Endrin	ND	0.095	0.029	1.00	
Endrin Aldehyde	ND	0.095	0.025	1.00	
4,4'-DDD	ND	0.095	0.026	1.00	
Endosulfan II	ND	0.095	0.026	1.00	
4,4'-DDT	ND	0.095	0.025	1.00	
Endosulfan Sulfate	ND	0.095	0.028	1.00	
Methoxychlor	ND	0.095	0.024	1.00	
Chlordane	ND	0.95	0.31	1.00	
Toxaphene	ND	1.9	0.56	1.00	
Endrin Ketone	ND	0.095	0.023	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	91	50-135	
2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Lead	**15-01-1404-4-I**	**01/22/15 01:10**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 08:40**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.098	0.027	1.00	
Gamma-BHC	ND	0.098	0.029	1.00	
Beta-BHC	ND	0.098	0.029	1.00	
Heptachlor	ND	0.098	0.026	1.00	
Delta-BHC	ND	0.098	0.028	1.00	
Aldrin	ND	0.098	0.026	1.00	
Heptachlor Epoxide	ND	0.098	0.025	1.00	
Endosulfan I	ND	0.098	0.027	1.00	
Dieldrin	ND	0.098	0.028	1.00	
4,4'-DDE	ND	0.098	0.026	1.00	
Endrin	ND	0.098	0.030	1.00	
Endrin Aldehyde	ND	0.098	0.026	1.00	
4,4'-DDD	ND	0.098	0.027	1.00	
Endosulfan II	ND	0.098	0.027	1.00	
4,4'-DDT	ND	0.098	0.026	1.00	
Endosulfan Sulfate	ND	0.098	0.029	1.00	
Methoxychlor	ND	0.098	0.025	1.00	
Chlordane	ND	0.98	0.32	1.00	
Toxaphene	ND	2.0	0.58	1.00	
Endrin Ketone	ND	0.098	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	101	50-135	
2,4,5,6-Tetrachloro-m-Xylene	96	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-01-1404-5-I**	**01/22/15 00:54**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 08:55**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.099	0.028	1.00	
Gamma-BHC	ND	0.099	0.030	1.00	
Beta-BHC	ND	0.099	0.030	1.00	
Heptachlor	ND	0.099	0.026	1.00	
Delta-BHC	ND	0.099	0.028	1.00	
Aldrin	ND	0.099	0.026	1.00	
Heptachlor Epoxide	ND	0.099	0.025	1.00	
Endosulfan I	ND	0.099	0.028	1.00	
Dieldrin	ND	0.099	0.028	1.00	
4,4'-DDE	ND	0.099	0.026	1.00	
Endrin	ND	0.099	0.030	1.00	
Endrin Aldehyde	ND	0.099	0.026	1.00	
4,4'-DDD	ND	0.099	0.027	1.00	
Endosulfan II	ND	0.099	0.027	1.00	
4,4'-DDT	ND	0.099	0.026	1.00	
Endosulfan Sulfate	ND	0.099	0.029	1.00	
Methoxychlor	ND	0.099	0.025	1.00	
Chlordane	ND	0.99	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.099	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	50-135	
2,4,5,6-Tetrachloro-m-Xylene	92	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-529-778**	**N/A**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 04:50**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	97	50-135	
2,4,5,6-Tetrachloro-m-Xylene	90	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-01-1404-1-I**	**01/22/15 00:36**	**Aqueous**	**GC 31**	**01/24/15**	**02/04/15 11:41**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.99	0.29	1.00	
Aroclor-1221	ND	0.99	0.28	1.00	
Aroclor-1232	ND	0.99	0.25	1.00	
Aroclor-1242	ND	0.99	0.18	1.00	
Aroclor-1248	ND	0.99	0.20	1.00	
Aroclor-1254	ND	0.99	0.22	1.00	
Aroclor-1260	ND	0.99	0.26	1.00	
Aroclor-1262	ND	0.99	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	73	50-135	
2,4,5,6-Tetrachloro-m-Xylene	84	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Lead	**15-01-1404-2-I**	**01/22/15 00:51**	**Aqueous**	**GC 31**	**01/24/15**	**02/04/15 12:00**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.96	0.28	1.00	
Aroclor-1221	ND	0.96	0.27	1.00	
Aroclor-1232	ND	0.96	0.24	1.00	
Aroclor-1242	ND	0.96	0.17	1.00	
Aroclor-1248	ND	0.96	0.19	1.00	
Aroclor-1254	ND	0.96	0.22	1.00	
Aroclor-1260	ND	0.96	0.25	1.00	
Aroclor-1262	ND	0.96	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	79	50-135	
2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-01-1404-3-I**	**01/22/15 00:35**	**Aqueous**	**GC 31**	**01/24/15**	**02/04/15 12:19**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.95	0.28	1.00	
Aroclor-1221	ND	0.95	0.27	1.00	
Aroclor-1232	ND	0.95	0.24	1.00	
Aroclor-1242	ND	0.95	0.17	1.00	
Aroclor-1248	ND	0.95	0.19	1.00	
Aroclor-1254	ND	0.95	0.21	1.00	
Aroclor-1260	ND	0.95	0.25	1.00	
Aroclor-1262	ND	0.95	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	72	50-135	
2,4,5,6-Tetrachloro-m-Xylene	79	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Lead	**15-01-1404-4-I**	**01/22/15 01:10**	**Aqueous**	**GC 31**	**01/24/15**	**02/04/15 12:38**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.98	0.29	1.00	
Aroclor-1221	ND	0.98	0.28	1.00	
Aroclor-1232	ND	0.98	0.24	1.00	
Aroclor-1242	ND	0.98	0.18	1.00	
Aroclor-1248	ND	0.98	0.20	1.00	
Aroclor-1254	ND	0.98	0.22	1.00	
Aroclor-1260	ND	0.98	0.26	1.00	
Aroclor-1262	ND	0.98	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	70	50-135	
2,4,5,6-Tetrachloro-m-Xylene	78	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-01-1404-5-I**	**01/22/15 00:54**	**Aqueous**	**GC 31**	**01/24/15**	**02/04/15 12:57**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.99	0.29	1.00	
Aroclor-1221	ND	0.99	0.28	1.00	
Aroclor-1232	ND	0.99	0.25	1.00	
Aroclor-1242	ND	0.99	0.18	1.00	
Aroclor-1248	ND	0.99	0.20	1.00	
Aroclor-1254	ND	0.99	0.22	1.00	
Aroclor-1260	ND	0.99	0.26	1.00	
Aroclor-1262	ND	0.99	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	70	50-135	
2,4,5,6-Tetrachloro-m-Xylene	78	50-135	

Method Blank	099-12-533-1000	N/A	Aqueous	GC 31	01/24/15	02/04/15 11:03	150124L09

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	71	50-135	
2,4,5,6-Tetrachloro-m-Xylene	79	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-01-1404-1-I**	**01/22/15 00:36**	**Aqueous**	**GC 26**	**01/24/15**	**02/06/15 20:53**	**150124L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	124	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Lead	**15-01-1404-2-I**	**01/22/15 00:51**	**Aqueous**	**GC 26**	**01/24/15**	**02/06/15 21:37**	**150124L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	126	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-01-1404-3-I**	**01/22/15 00:35**	**Aqueous**	**GC 26**	**01/24/15**	**02/06/15 22:21**	**150124L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	87	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Lead	**15-01-1404-4-I**	**01/22/15 01:10**	**Aqueous**	**GC 26**	**01/24/15**	**02/06/15 23:05**	**150124L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	122	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-01-1404-5-I**	**01/22/15 00:54**	**Aqueous**	**GC 26**	**01/24/15**	**02/06/15 23:49**	**150124L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	122	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-963-82**	**N/A**	**Aqueous**	**GC 26**	**01/24/15**	**02/06/15 18:41**	**150124L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	115	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-01-1404-1-I**	**01/22/15 00:36**	**Aqueous**	**GC 40**	**01/26/15**	**01/29/15 20:17**	**150126L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	66	0-123	

HCS 240 Lead	15-01-1404-2-I	01/22/15 00:51	Aqueous	GC 40	01/26/15	01/29/15 20:40	150126L04

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	70	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-01-1404-3-I**	**01/22/15 00:35**	**Aqueous**	**GC 40**	**01/26/15**	**01/29/15 21:02**	**150126L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	64	0-123	

HCS 260 Lead	15-01-1404-4-I	01/22/15 01:10	Aqueous	GC 40	01/26/15	01/29/15 21:26	150126L04

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	75	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-01-1404-5-I**	**01/22/15 00:54**	**Aqueous**	**GC 40**	**01/26/15**	**01/29/15 21:49**	**150126L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	63	0-123	

Method Blank	095-01-034-634	N/A	Aqueous	GC 40	01/26/15	01/29/15 19:53	150126L04

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	60	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-01-1404-1-H**	**01/22/15 00:36**	**Aqueous**	**GC/MS TT**	**01/24/15**	**02/02/15 21:03**	**150124L02B**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.8	2.8	1.00	
Acenaphthylene	ND	9.8	2.8	1.00	
Aniline	ND	9.8	1.5	1.00	
Anthracene	ND	9.8	3.0	1.00	
Azobenzene	ND	9.8	2.6	1.00	
Benzidine	ND	49	6.4	1.00	
Benzo (a) Anthracene	ND	9.8	4.6	1.00	
Benzo (a) Pyrene	ND	9.8	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.8	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.8	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.8	3.2	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.8	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.8	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.8	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.8	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.8	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.8	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.8	2.3	1.00	
4-Chloroaniline	ND	9.8	1.9	1.00	
2-Chloronaphthalene	ND	9.8	2.7	1.00	
2-Chlorophenol	ND	9.8	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.8	2.6	1.00	
Chrysene	ND	9.8	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.8	2.9	1.00	
Di-n-Octyl Phthalate	ND	9.8	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.8	2.5	1.00	
Dibenzofuran	ND	9.8	2.8	1.00	
1,2-Dichlorobenzene	ND	9.8	3.0	1.00	
1,3-Dichlorobenzene	ND	9.8	3.0	1.00	
1,4-Dichlorobenzene	ND	9.8	2.8	1.00	
3,3'-Dichlorobenzidine	ND	25	2.5	1.00	
2,4-Dichlorophenol	ND	9.8	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.8	2.7	1.00	
Dimethyl Phthalate	ND	9.8	2.6	1.00	
2,4-Dimethylphenol	ND	9.8	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.8	2.3	1.00	
2,6-Dinitrotoluene	ND	9.8	2.3	1.00	
Fluoranthene	ND	9.8	3.0	1.00	
Fluorene	ND	9.8	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	9.8	2.8	1.00	
Hexachlorobenzene	ND	9.8	3.0	1.00	
Hexachlorocyclopentadiene	ND	25	6.8	1.00	
Hexachloroethane	ND	9.8	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.8	2.1	1.00	
Isophorone	ND	9.8	2.5	1.00	
2-Methylnaphthalene	ND	9.8	2.8	1.00	
1-Methylnaphthalene	ND	9.8	2.8	1.00	
2-Methylphenol	ND	9.8	2.1	1.00	
3/4-Methylphenol	ND	9.8	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.8	2.3	1.00	
N-Nitrosodimethylamine	ND	9.8	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.8	2.7	1.00	
Naphthalene	ND	9.8	2.8	1.00	
4-Nitroaniline	ND	9.8	2.1	1.00	
3-Nitroaniline	ND	9.8	2.2	1.00	
2-Nitroaniline	ND	9.8	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	9.8	1.6	1.00	
2-Nitrophenol	ND	9.8	2.5	1.00	
Pentachlorophenol	ND	9.8	4.6	1.00	
Phenanthrene	ND	9.8	2.9	1.00	
Phenol	ND	9.8	2.0	1.00	
Pyrene	ND	9.8	2.9	1.00	
Pyridine	ND	9.8	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.8	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.8	2.5	1.00	
2,4,5-Trichlorophenol	ND	9.8	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/23/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1404
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 3 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	80	33-120	
2-Fluorophenol	55	24-120	
Nitrobenzene-d5	74	38-120	
p-Terphenyl-d14	78	41-137	
Phenol-d6	35	16-120	
2,4,6-Tribromophenol	105	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Lead	**15-01-1404-2-H**	**01/22/15 00:51**	**Aqueous**	**GC/MS TT**	**01/24/15**	**02/02/15 21:22**	**150124L02B**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.8	2.8	1.00	
Acenaphthylene	ND	9.8	2.8	1.00	
Aniline	ND	9.8	1.5	1.00	
Anthracene	ND	9.8	3.0	1.00	
Azobenzene	ND	9.8	2.6	1.00	
Benzidine	ND	49	6.4	1.00	
Benzo (a) Anthracene	ND	9.8	4.6	1.00	
Benzo (a) Pyrene	ND	9.8	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.8	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.8	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.8	3.2	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.8	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.8	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.8	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.8	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.8	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.8	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.8	2.3	1.00	
4-Chloroaniline	ND	9.8	1.9	1.00	
2-Chloronaphthalene	ND	9.8	2.7	1.00	
2-Chlorophenol	ND	9.8	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.8	2.6	1.00	
Chrysene	ND	9.8	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.8	2.9	1.00	
Di-n-Octyl Phthalate	ND	9.8	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.8	2.5	1.00	
Dibenzofuran	ND	9.8	2.8	1.00	
1,2-Dichlorobenzene	ND	9.8	3.0	1.00	
1,3-Dichlorobenzene	ND	9.8	3.0	1.00	
1,4-Dichlorobenzene	ND	9.8	2.8	1.00	
3,3'-Dichlorobenzidine	ND	25	2.5	1.00	
2,4-Dichlorophenol	ND	9.8	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.8	2.7	1.00	
Dimethyl Phthalate	ND	9.8	2.6	1.00	
2,4-Dimethylphenol	ND	9.8	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.8	2.3	1.00	
2,6-Dinitrotoluene	ND	9.8	2.3	1.00	
Fluoranthene	ND	9.8	3.0	1.00	
Fluorene	ND	9.8	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	9.8	2.8	1.00	
Hexachlorobenzene	ND	9.8	3.0	1.00	
Hexachlorocyclopentadiene	ND	25	6.8	1.00	
Hexachloroethane	ND	9.8	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.8	2.1	1.00	
Isophorone	ND	9.8	2.5	1.00	
2-Methylnaphthalene	ND	9.8	2.8	1.00	
1-Methylnaphthalene	ND	9.8	2.8	1.00	
2-Methylphenol	ND	9.8	2.1	1.00	
3/4-Methylphenol	ND	9.8	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.8	2.3	1.00	
N-Nitrosodimethylamine	ND	9.8	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.8	2.7	1.00	
Naphthalene	ND	9.8	2.8	1.00	
4-Nitroaniline	ND	9.8	2.1	1.00	
3-Nitroaniline	ND	9.8	2.2	1.00	
2-Nitroaniline	ND	9.8	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	9.8	1.6	1.00	
2-Nitrophenol	ND	9.8	2.5	1.00	
Pentachlorophenol	ND	9.8	4.6	1.00	
Phenanthrene	ND	9.8	2.9	1.00	
Phenol	ND	9.8	2.0	1.00	
Pyrene	ND	9.8	2.9	1.00	
Pyridine	ND	9.8	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.8	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.8	2.5	1.00	
2,4,5-Trichlorophenol	ND	9.8	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/23/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1404
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 6 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	71	33-120	
2-Fluorophenol	54	24-120	
Nitrobenzene-d5	69	38-120	
p-Terphenyl-d14	69	41-137	
Phenol-d6	33	16-120	
2,4,6-Tribromophenol	90	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-01-1404-3-H**	**01/22/15 00:35**	**Aqueous**	**GC/MS TT**	**01/24/15**	**02/02/15 21:40**	**150124L02B**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.7	2.7	1.00	
Acenaphthylene	ND	9.7	2.8	1.00	
Aniline	ND	9.7	1.5	1.00	
Anthracene	ND	9.7	2.9	1.00	
Azobenzene	ND	9.7	2.6	1.00	
Benzidine	ND	49	6.3	1.00	
Benzo (a) Anthracene	ND	9.7	4.5	1.00	
Benzo (a) Pyrene	ND	9.7	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.7	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.7	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.7	3.1	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.7	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.7	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.7	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.7	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.7	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.7	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.7	2.3	1.00	
4-Chloroaniline	ND	9.7	1.9	1.00	
2-Chloronaphthalene	ND	9.7	2.7	1.00	
2-Chlorophenol	ND	9.7	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.7	2.6	1.00	
Chrysene	ND	9.7	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.7	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.7	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.7	2.5	1.00	
Dibenzofuran	ND	9.7	2.7	1.00	
1,2-Dichlorobenzene	ND	9.7	3.0	1.00	
1,3-Dichlorobenzene	ND	9.7	3.0	1.00	
1,4-Dichlorobenzene	ND	9.7	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.7	2.7	1.00	
Dimethyl Phthalate	ND	9.7	2.5	1.00	
2,4-Dimethylphenol	ND	9.7	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.7	2.3	1.00	
2,6-Dinitrotoluene	ND	9.7	2.3	1.00	
Fluoranthene	ND	9.7	3.0	1.00	
Fluorene	ND	9.7	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.7	2.8	1.00	
Hexachlorobenzene	ND	9.7	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.7	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.7	2.1	1.00	
Isophorone	ND	9.7	2.5	1.00	
2-Methylnaphthalene	ND	9.7	2.7	1.00	
1-Methylnaphthalene	ND	9.7	2.7	1.00	
2-Methylphenol	ND	9.7	2.0	1.00	
3/4-Methylphenol	ND	9.7	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.7	2.3	1.00	
N-Nitrosodimethylamine	ND	9.7	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.7	2.7	1.00	
Naphthalene	ND	9.7	2.8	1.00	
4-Nitroaniline	ND	9.7	2.1	1.00	
3-Nitroaniline	ND	9.7	2.2	1.00	
2-Nitroaniline	ND	9.7	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.7	1.5	1.00	
2-Nitrophenol	ND	9.7	2.5	1.00	
Pentachlorophenol	ND	9.7	4.5	1.00	
Phenanthrene	ND	9.7	2.8	1.00	
Phenol	ND	9.7	2.0	1.00	
Pyrene	ND	9.7	2.9	1.00	
Pyridine	ND	9.7	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.7	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.7	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/23/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1404
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 9 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	76	33-120	
2-Fluorophenol	54	24-120	
Nitrobenzene-d5	73	38-120	
p-Terphenyl-d14	75	41-137	
Phenol-d6	34	16-120	
2,4,6-Tribromophenol	99	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Lead	**15-01-1404-4-H**	**01/22/15 01:10**	**Aqueous**	**GC/MS TT**	**01/24/15**	**02/02/15 21:59**	**150124L02B**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.8	2.8	1.00	
Acenaphthylene	ND	9.8	2.8	1.00	
Aniline	ND	9.8	1.5	1.00	
Anthracene	ND	9.8	3.0	1.00	
Azobenzene	ND	9.8	2.6	1.00	
Benzidine	ND	49	6.4	1.00	
Benzo (a) Anthracene	ND	9.8	4.6	1.00	
Benzo (a) Pyrene	ND	9.8	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.8	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.8	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.8	3.2	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.8	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.8	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.8	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.8	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.8	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.8	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.8	2.3	1.00	
4-Chloroaniline	ND	9.8	1.9	1.00	
2-Chloronaphthalene	ND	9.8	2.7	1.00	
2-Chlorophenol	ND	9.8	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.8	2.6	1.00	
Chrysene	ND	9.8	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.8	2.9	1.00	
Di-n-Octyl Phthalate	ND	9.8	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.8	2.5	1.00	
Dibenzofuran	ND	9.8	2.8	1.00	
1,2-Dichlorobenzene	ND	9.8	3.0	1.00	
1,3-Dichlorobenzene	ND	9.8	3.0	1.00	
1,4-Dichlorobenzene	ND	9.8	2.8	1.00	
3,3'-Dichlorobenzidine	ND	25	2.5	1.00	
2,4-Dichlorophenol	ND	9.8	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.8	2.7	1.00	
Dimethyl Phthalate	ND	9.8	2.6	1.00	
2,4-Dimethylphenol	ND	9.8	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.8	2.3	1.00	
2,6-Dinitrotoluene	ND	9.8	2.3	1.00	
Fluoranthene	ND	9.8	3.0	1.00	
Fluorene	ND	9.8	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	9.8	2.8	1.00	
Hexachlorobenzene	ND	9.8	3.0	1.00	
Hexachlorocyclopentadiene	ND	25	6.8	1.00	
Hexachloroethane	ND	9.8	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.8	2.1	1.00	
Isophorone	ND	9.8	2.5	1.00	
2-Methylnaphthalene	ND	9.8	2.8	1.00	
1-Methylnaphthalene	ND	9.8	2.8	1.00	
2-Methylphenol	ND	9.8	2.1	1.00	
3/4-Methylphenol	ND	9.8	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.8	2.3	1.00	
N-Nitrosodimethylamine	ND	9.8	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.8	2.7	1.00	
Naphthalene	ND	9.8	2.8	1.00	
4-Nitroaniline	ND	9.8	2.1	1.00	
3-Nitroaniline	ND	9.8	2.2	1.00	
2-Nitroaniline	ND	9.8	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	9.8	1.6	1.00	
2-Nitrophenol	ND	9.8	2.5	1.00	
Pentachlorophenol	ND	9.8	4.6	1.00	
Phenanthrene	ND	9.8	2.9	1.00	
Phenol	ND	9.8	2.0	1.00	
Pyrene	ND	9.8	2.9	1.00	
Pyridine	ND	9.8	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.8	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.8	2.5	1.00	
2,4,5-Trichlorophenol	ND	9.8	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/23/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1404
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 12 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	67	33-120	
2-Fluorophenol	51	24-120	
Nitrobenzene-d5	64	38-120	
p-Terphenyl-d14	67	41-137	
Phenol-d6	32	16-120	
2,4,6-Tribromophenol	86	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-01-1404-5-H**	**01/22/15 00:54**	**Aqueous**	**GC/MS TT**	**01/24/15**	**02/02/15 22:18**	**150124L02B**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.7	2.7	1.00	
Acenaphthylene	ND	9.7	2.8	1.00	
Aniline	ND	9.7	1.5	1.00	
Anthracene	ND	9.7	2.9	1.00	
Azobenzene	ND	9.7	2.6	1.00	
Benzidine	ND	49	6.3	1.00	
Benzo (a) Anthracene	ND	9.7	4.5	1.00	
Benzo (a) Pyrene	ND	9.7	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.7	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.7	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.7	3.1	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.7	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.7	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.7	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.7	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.7	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.7	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.7	2.3	1.00	
4-Chloroaniline	ND	9.7	1.9	1.00	
2-Chloronaphthalene	ND	9.7	2.7	1.00	
2-Chlorophenol	ND	9.7	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.7	2.6	1.00	
Chrysene	ND	9.7	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.7	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.7	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.7	2.5	1.00	
Dibenzofuran	ND	9.7	2.7	1.00	
1,2-Dichlorobenzene	ND	9.7	3.0	1.00	
1,3-Dichlorobenzene	ND	9.7	3.0	1.00	
1,4-Dichlorobenzene	ND	9.7	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.7	2.7	1.00	
Dimethyl Phthalate	ND	9.7	2.5	1.00	
2,4-Dimethylphenol	ND	9.7	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.7	2.3	1.00	
2,6-Dinitrotoluene	ND	9.7	2.3	1.00	
Fluoranthene	ND	9.7	3.0	1.00	
Fluorene	ND	9.7	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.7	2.8	1.00	
Hexachlorobenzene	ND	9.7	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.7	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.7	2.1	1.00	
Isophorone	ND	9.7	2.5	1.00	
2-Methylnaphthalene	ND	9.7	2.7	1.00	
1-Methylnaphthalene	ND	9.7	2.7	1.00	
2-Methylphenol	ND	9.7	2.0	1.00	
3/4-Methylphenol	ND	9.7	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.7	2.3	1.00	
N-Nitrosodimethylamine	ND	9.7	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.7	2.7	1.00	
Naphthalene	ND	9.7	2.8	1.00	
4-Nitroaniline	ND	9.7	2.1	1.00	
3-Nitroaniline	ND	9.7	2.2	1.00	
2-Nitroaniline	ND	9.7	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.7	1.5	1.00	
2-Nitrophenol	ND	9.7	2.5	1.00	
Pentachlorophenol	ND	9.7	4.5	1.00	
Phenanthrene	ND	9.7	2.8	1.00	
Phenol	ND	9.7	2.0	1.00	
Pyrene	ND	9.7	2.9	1.00	
Pyridine	ND	9.7	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.7	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.7	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/23/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1404
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 15 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	75	33-120	
2-Fluorophenol	54	24-120	
Nitrobenzene-d5	72	38-120	
p-Terphenyl-d14	75	41-137	
Phenol-d6	33	16-120	
2,4,6-Tribromophenol	100	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-3990**	**N/A**	**Aqueous**	**GC/MS TT**	**01/24/15**	**01/28/15 12:09**	**150124L02B**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.5	1.00	
Benzo (k) Fluoranthene	ND	10	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.7	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.8	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.5	1.00	
Dibenzofuran	ND	10	2.8	1.00	
1,2-Dichlorobenzene	ND	10	3.0	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	10	2.3	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.1	1.00	
Isophorone	ND	10	2.5	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.8	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.1	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.6	1.00	
Phenanthrene	ND	10	2.9	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.8	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/23/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1404
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 18 of 18

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	69	33-120	
2-Fluorophenol	58	24-120	
Nitrobenzene-d5	75	38-120	
p-Terphenyl-d14	76	41-137	
Phenol-d6	36	16-120	
2,4,6-Tribromophenol	101	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-01-1404-1-A**	**01/22/15 00:36**	**Aqueous**	**GC/MS LL**	**01/23/15**	**01/23/15 17:05**	**150123L019**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	11	20	10	1.00	J
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	3.7	10	2.2	1.00	J
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	111	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Lead	**15-01-1404-2-B**	**01/22/15 00:51**	**Aqueous**	**GC/MS JJ**	**01/26/15**	**01/26/15 18:19**	**150126L019**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	0.41	10	0.41	1.00	J
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	
Dibromofluoromethane	94	78-126	
1,2-Dichloroethane-d4	101	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-01-1404-3-A**	**01/22/15 00:35**	**Aqueous**	**GC/MS LL**	**01/23/15**	**01/23/15 20:50**	**150123L019**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	103	78-126	
1,2-Dichloroethane-d4	114	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Lead	**15-01-1404-4-A**	**01/22/15 01:10**	**Aqueous**	**GC/MS LL**	**01/23/15**	**01/23/15 21:18**	**150123L019**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	
Dibromofluoromethane	103	78-126	
1,2-Dichloroethane-d4	114	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-01-1404-5-A**	**01/22/15 00:54**	**Aqueous**	**GC/MS LL**	**01/23/15**	**01/23/15 21:46**	**150123L019**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	100	78-126	
1,2-Dichloroethane-d4	113	75-135	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-16235**	**N/A**	**Aqueous**	**GC/MS LL**	**01/23/15**	**01/23/15 16:37**	**150123L019**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	106	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-16243**	**N/A**	**Aqueous**	**GC/MS JJ**	**01/26/15**	**01/26/15 15:05**	**150126L019**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	80-120	
Dibromofluoromethane	94	78-126	
1,2-Dichloroethane-d4	98	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 210 Lead	**15-01-1404-1**	**01/22/15 00:36**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.059	0.10	0.025	1.00	J	mg/L	N/A	01/23/15	EPA 300.0
Chloride (24)	0.92	1.0	0.12	1.00	J	mg/L	N/A	01/23/15	EPA 300.0
Bromide (24)	ND	0.10	0.037	1.00		mg/L	N/A	01/23/15	EPA 300.0
Nitrate (as N) (24)	0.55	0.10	0.025	1.00		mg/L	N/A	01/23/15	EPA 300.0
Sulfate (24)	3.1	1.0	0.19	1.00		mg/L	N/A	01/23/15	EPA 300.0
Phosphorus, Total (24)	0.10	0.050	0.020	1.00		mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	41.0	1.00	0.848	1.00		mg/L	N/A	01/29/15	SM 2320B
Bicarbonate (as CaCO3) (24)	41.0	1.00	0.848	1.00		mg/L	N/A	01/29/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/29/15	SM 2320B
Solids, Total Dissolved (24)	65	1.0	0.82	1.00		mg/L	01/26/15	01/26/15	SM 2540 C
Solids, Total Suspended (24)	20	1.0	0.95	1.00		mg/L	01/27/15	01/27/15	SM 2540 D
pH (24)	7.83	0.01	0.01	1.00	BV,BU	pH units	N/A	01/23/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	1.3	0.50	0.28	1.00		mg/L	02/03/15	02/03/15	SM 4500 N Org B
Carbon, Total Organic (24)	26	2.5	1.2	5.00		mg/L	01/29/15	01/30/15	SM 5310 B
Carbon, Dissolved Organic (24)	4.7	0.50	0.24	1.00		mg/L	01/23/15	01/24/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 240 Lead	**15-01-1404-2**	**01/22/15 00:51**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.20	0.10	0.025	1.00		mg/L	N/A	01/23/15	EPA 300.0
Chloride (24)	16	1.0	0.12	1.00		mg/L	N/A	01/23/15	EPA 300.0
Bromide (24)	ND	0.10	0.037	1.00		mg/L	N/A	01/23/15	EPA 300.0
Nitrate (as N) (24)	1.7	0.10	0.025	1.00		mg/L	N/A	01/23/15	EPA 300.0
Sulfate (24)	28	1.0	0.19	1.00		mg/L	N/A	01/23/15	EPA 300.0
Phosphorus, Total (24)	0.032	0.050	0.020	1.00	J	mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	216	5.00	0.848	1.00		mg/L	N/A	01/29/15	SM 2320B
Bicarbonate (as CaCO3) (24)	216	5.00	0.848	1.00		mg/L	N/A	01/29/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/29/15	SM 2320B
Solids, Total Dissolved (24)	275	1.00	0.820	1.00		mg/L	01/26/15	01/26/15	SM 2540 C
Solids, Total Suspended (24)	3.6	1.0	0.95	1.00		mg/L	01/27/15	01/27/15	SM 2540 D
pH (24)	7.68	0.01	0.01	1.00	BV,BU	pH units	N/A	01/23/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	02/03/15	02/03/15	SM 4500 N Org B
Carbon, Total Organic (24)	11	2.5	1.2	5.00		mg/L	01/29/15	01/30/15	SM 5310 B
Carbon, Dissolved Organic (24)	4.9	0.50	0.24	1.00		mg/L	01/23/15	01/24/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 250 Lead	**15-01-1404-3**	**01/22/15 00:35**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.20	0.10	0.025	1.00		mg/L	N/A	01/23/15	EPA 300.0
Chloride (24)	16	1.0	0.12	1.00		mg/L	N/A	01/23/15	EPA 300.0
Bromide (24)	0.098	0.10	0.037	1.00	J	mg/L	N/A	01/23/15	EPA 300.0
Nitrate (as N) (24)	1.6	0.10	0.025	1.00		mg/L	N/A	01/23/15	EPA 300.0
Sulfate (24)	27	1.0	0.19	1.00		mg/L	N/A	01/23/15	EPA 300.0
Phosphorus, Total (24)	0.024	0.050	0.020	1.00	J	mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	211	5.00	0.848	1.00		mg/L	N/A	01/29/15	SM 2320B
Bicarbonate (as CaCO3) (24)	211	5.00	0.848	1.00		mg/L	N/A	01/29/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/29/15	SM 2320B
Solids, Total Dissolved (24)	265	1.00	0.820	1.00		mg/L	01/26/15	01/26/15	SM 2540 C
Solids, Total Suspended (24)	8.1	1.0	0.95	1.00		mg/L	01/27/15	01/27/15	SM 2540 D
pH (24)	7.79	0.01	0.01	1.00	BV,BU	pH units	N/A	01/23/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.28	0.50	0.28	1.00	J	mg/L	02/03/15	02/03/15	SM 4500 N Org B
Carbon, Total Organic (24)	8.6	2.5	1.2	5.00		mg/L	01/29/15	01/30/15	SM 5310 B
Carbon, Dissolved Organic (24)	7.2	0.50	0.24	1.00		mg/L	01/23/15	01/24/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 260 Lead	**15-01-1404-4**	**01/22/15 01:10**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.21	0.10	0.025	1.00		mg/L	N/A	01/23/15	EPA 300.0
Chloride (24)	17	1.0	0.12	1.00		mg/L	N/A	01/23/15	EPA 300.0
Bromide (24)	0.11	0.10	0.037	1.00		mg/L	N/A	01/23/15	EPA 300.0
Nitrate (as N) (24)	1.7	0.10	0.025	1.00		mg/L	N/A	01/23/15	EPA 300.0
Sulfate (24)	33	1.0	0.19	1.00		mg/L	N/A	01/23/15	EPA 300.0
Phosphorus, Total (24)	0.037	0.050	0.020	1.00	J	mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	222	5.00	0.848	1.00		mg/L	N/A	01/29/15	SM 2320B
Bicarbonate (as CaCO3) (24)	222	5.00	0.848	1.00		mg/L	N/A	01/29/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/29/15	SM 2320B
Solids, Total Dissolved (24)	275	1.00	0.820	1.00		mg/L	01/26/15	01/26/15	SM 2540 C
Solids, Total Suspended (24)	11	1.0	0.95	1.00		mg/L	01/27/15	01/27/15	SM 2540 D
pH (24)	7.80	0.01	0.01	1.00	BV,BU	pH units	N/A	01/23/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.70	0.50	0.28	1.00		mg/L	02/03/15	02/03/15	SM 4500 N Org B
Carbon, Total Organic (24)	5.6	2.5	1.2	5.00		mg/L	01/29/15	01/30/15	SM 5310 B
Carbon, Dissolved Organic (24)	4.7	0.50	0.24	1.00		mg/L	01/23/15	01/24/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 270 Lead	**15-01-1404-5**	**01/22/15 00:54**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.21	0.10	0.025	1.00		mg/L	N/A	01/23/15	EPA 300.0
Chloride (24)	16	1.0	0.12	1.00		mg/L	N/A	01/23/15	EPA 300.0
Bromide (24)	ND	0.10	0.037	1.00		mg/L	N/A	01/23/15	EPA 300.0
Nitrate (as N) (24)	1.6	0.10	0.025	1.00		mg/L	N/A	01/23/15	EPA 300.0
Sulfate (24)	29	1.0	0.19	1.00		mg/L	N/A	01/23/15	EPA 300.0
Phosphorus, Total (24)	0.031	0.050	0.020	1.00	J	mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	205	5.00	0.848	1.00		mg/L	N/A	01/29/15	SM 2320B
Bicarbonate (as CaCO3) (24)	205	5.00	0.848	1.00		mg/L	N/A	01/29/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/29/15	SM 2320B
Solids, Total Dissolved (24)	265	1.00	0.820	1.00		mg/L	01/26/15	01/26/15	SM 2540 C
Solids, Total Suspended (24)	13	1.0	0.95	1.00		mg/L	01/27/15	01/27/15	SM 2540 D
pH (24)	7.94	0.01	0.01	1.00	BV,BU	pH units	N/A	01/23/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.63	0.50	0.28	1.00		mg/L	02/03/15	02/03/15	SM 4500 N Org B
Carbon, Total Organic (24)	4.5	2.5	1.2	5.00		mg/L	01/29/15	01/30/15	SM 5310 B
Carbon, Dissolved Organic (24)	3.1	0.50	0.24	1.00		mg/L	01/23/15	01/24/15	SM 5310 B

Method Blank							**N/A**		**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	ND	0.10	0.025	1.00		mg/L	N/A	01/23/15	EPA 300.0
Chloride (24)	ND	1.0	0.12	1.00		mg/L	N/A	01/23/15	EPA 300.0
Bromide (24)	ND	0.10	0.037	1.00		mg/L	N/A	01/23/15	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.025	1.00		mg/L	N/A	01/23/15	EPA 300.0
Sulfate (24)	ND	1.0	0.19	1.00		mg/L	N/A	01/23/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/29/15	SM 2320B
Bicarbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/29/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/29/15	SM 2320B
Solids, Total Dissolved (24)	ND	1.0	0.82	1.00		mg/L	01/26/15	01/26/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.95	1.00		mg/L	01/27/15	01/27/15	SM 2540 D
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	02/03/15	02/03/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	01/29/15	01/30/15	SM 5310 B
Carbon, Dissolved Organic (24)	ND	0.50	0.24	1.00		mg/L	01/23/15	01/24/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: N/A
Method: EPA 300.0

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-1370-4	**Sample**	**Aqueous**	**IC 15**	**N/A**	**01/23/15 16:52**	**150123S01**
15-01-1370-4	**Matrix Spike**	**Aqueous**	**IC 15**	**N/A**	**01/23/15 18:17**	**150123S01**
15-01-1370-4	**Matrix Spike Duplicate**	**Aqueous**	**IC 15**	**N/A**	**01/23/15 18:33**	**150123S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Fluoride	0.1518	250.0	251.7	101	248.8	99	80-120	1	0-20	
Chloride	119.4	5000	5285	103	5293	103	80-120	0	0-20	
Bromide	0.2959	500.0	519.6	104	519.6	104	80-120	0	0-20	
Nitrate (as N)	ND	500.0	517.8	104	519.6	104	80-120	0	0-20	
Sulfate	ND	5000	5140	103	5149	103	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	01/23/15
6200 UTSA Blvd., Suite 102	Work Order:	15-01-1404
San Antonio, TX 78249-1618	Preparation:	N/A
	Method:	EPA 365.1
Project: EAA 27122		Page 2 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 210 Lead	**Sample**	**Aqueous**	**ACA 1**	**N/A**	**02/02/15 14:36**	**150202SO1**
HCS 210 Lead	**Matrix Spike**	**Aqueous**	**ACA 1**	**N/A**	**02/02/15 14:36**	**150202SO1**
HCS 210 Lead	**Matrix Spike Duplicate**	**Aqueous**	**ACA 1**	**N/A**	**02/02/15 14:36**	**150202SO1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.1013	0.2000	0.3235	111	0.3258	112	90-110	1	0-25	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 210 Lead	**Sample**	**Aqueous**	**TOC 8**	**01/29/15**	**01/30/15 08:20**	**F0129TOCS3**
HCS 210 Lead	**Matrix Spike**	**Aqueous**	**TOC 8**	**01/29/15**	**01/30/15 08:20**	**F0129TOCS3**
HCS 210 Lead	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**01/29/15**	**01/30/15 08:20**	**F0129TOCS3**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	25.90	50.00	59.00	66	61.00	70	31-145	3	0-23	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-1355-4	**Sample**	**Aqueous**	**TOC 8**	**01/23/15**	**01/24/15 06:25**	**F0123DOCS2**
15-01-1355-4	**Matrix Spike**	**Aqueous**	**TOC 8**	**01/23/15**	**01/24/15 06:25**	**F0123DOCS2**
15-01-1355-4	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**01/23/15**	**01/24/15 06:25**	**F0123DOCS2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	29.40	50.00	68.00	77	68.00	77	31-145	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3005A Filt.
Method: EPA 6010B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-1511-1	**Sample**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 17:55**	**150126SA6**
15-01-1511-1	**Matrix Spike**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 17:57**	**150126SA6**
15-01-1511-1	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 17:58**	**150126SA6**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Calcium	19.19	0.5000	20.14	4X	20.20	4X	77-113	4X	0-11	Q
Magnesium	2.172	0.5000	2.657	4X	2.674	4X	56-140	4X	0-11	Q
Potassium	1.560	5.000	6.465	98	6.337	96	83-131	2	0-7	
Sodium	1.042	5.000	5.732	94	5.907	97	73-127	3	0-9	
Strontium	0.09780	0.5000	0.6090	102	0.6223	105	81-123	2	0-6	
Silicon	1.065	0.5000	1.494	86	1.491	85	24-180	0	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	01/23/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1404
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: EAA 27122			Page 6 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-1511-2	**Sample**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/28/15 11:59**	**150126S03**
15-01-1511-2	**Matrix Spike**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 08:25**	**150126S03**
15-01-1511-2	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 08:28**	**150126S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.1000	0.09735	97	0.09348	93	85-133	4	0-11	
Arsenic	ND	0.1000	0.09587	96	0.09385	94	73-127	2	0-11	
Barium	0.05252	0.1000	0.1547	102	0.1527	100	74-128	1	0-10	
Beryllium	ND	0.1000	0.09530	95	0.09080	91	56-122	5	0-11	
Cadmium	ND	0.1000	0.09322	93	0.08931	89	84-114	4	0-8	
Chromium	ND	0.1000	0.1030	103	0.1001	100	73-133	3	0-11	
Copper	0.001256	0.1000	0.09476	94	0.09231	91	72-108	3	0-10	
Lead	ND	0.1000	0.1001	100	0.09724	97	79-121	3	0-10	
Nickel	0.001371	0.1000	0.09097	90	0.08788	87	68-122	3	0-10	
Selenium	ND	0.1000	0.09183	92	0.08674	87	59-125	6	0-12	
Silver	ND	0.05000	0.04271	85	0.03964	79	68-128	7	0-14	
Thallium	ND	0.1000	0.09514	95	0.09216	92	73-121	3	0-11	
Zinc	0.01878	0.1000	0.1226	104	0.09249	74	43-145	28	0-39	
Aluminum	ND	0.1000	0.1196	120	0.1191	119	47-161	0	0-24	
Iron	ND	5.100	5.315	104	5.347	105	27-201	1	0-24	
Manganese	0.001311	0.1000	0.09499	94	0.09083	90	72-126	4	0-42	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	01/23/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1404
San Antonio, TX 78249-1618		Preparation:	EPA 7470A Total
		Method:	EPA 7470A
Project: EAA 27122			Page 7 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-1366-3	**Sample**	**Aqueous**	**Mercury 04**	**01/29/15**	**01/29/15 17:06**	**150129S06**
15-01-1366-3	**Matrix Spike**	**Aqueous**	**Mercury 04**	**01/29/15**	**01/29/15 17:08**	**150129S06**
15-01-1366-3	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 04**	**01/29/15**	**01/29/15 17:10**	**150129S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.01060	106	0.01080	108	66-126	2	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 260 Lead	**Sample**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**01/31/15 13:33**	**150129S19**
HCS 260 Lead	**Matrix Spike**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**01/31/15 13:42**	**150129S19**
HCS 260 Lead	**Matrix Spike Duplicate**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**01/31/15 17:15**	**150129S19**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Caffeine	57.25	100.0	176.7	119	171.2	114	70-130	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 240 Lead	**Sample**	**Aqueous**	**GC/MS JJ**	**01/26/15**	**01/26/15 18:19**	**150126S016**
HCS 240 Lead	**Matrix Spike**	**Aqueous**	**GC/MS JJ**	**01/26/15**	**01/26/15 18:47**	**150126S016**
HCS 240 Lead	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS JJ**	**01/26/15**	**01/26/15 19:14**	**150126S016**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	45.57	91	47.86	96	74-122	5	0-21	
Carbon Tetrachloride	ND	50.00	45.00	90	48.21	96	60-144	7	0-21	
Chlorobenzene	ND	50.00	44.04	88	46.31	93	73-120	5	0-22	
1,2-Dibromoethane	ND	50.00	47.48	95	49.24	98	80-122	4	0-20	
1,2-Dichlorobenzene	ND	50.00	44.96	90	47.46	95	70-120	5	0-26	
1,2-Dichloroethane	ND	50.00	49.58	99	51.27	103	64-142	3	0-20	
1,1-Dichloroethene	ND	50.00	42.41	85	43.52	87	52-136	3	0-21	
Ethylbenzene	ND	50.00	46.50	93	48.43	97	77-125	4	0-24	
Toluene	ND	50.00	45.90	92	48.23	96	72-126	5	0-23	
Trichloroethene	ND	50.00	46.78	94	48.76	98	74-128	4	0-22	
Vinyl Chloride	ND	50.00	33.56	67	35.26	71	67-133	5	0-20	
p/m-Xylene	ND	100.0	92.06	92	96.04	96	63-129	4	0-25	
o-Xylene	ND	50.00	45.76	92	47.70	95	62-128	4	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	39.91	80	42.64	85	68-134	7	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 210 Lead	**Sample**	**Aqueous**	**GC/MS LL**	**01/23/15**	**01/23/15 17:05**	**150123S015**
HCS 210 Lead	**Matrix Spike**	**Aqueous**	**GC/MS LL**	**01/23/15**	**01/23/15 17:33**	**150123S015**
HCS 210 Lead	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS LL**	**01/23/15**	**01/23/15 18:01**	**150123S015**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	52.69	105	58.35	117	74-122	10	0-21	
Carbon Tetrachloride	ND	50.00	50.79	102	58.11	116	60-144	13	0-21	
Chlorobenzene	ND	50.00	50.97	102	56.51	113	73-120	10	0-22	
1,2-Dibromoethane	ND	50.00	50.85	102	57.73	115	80-122	13	0-20	
1,2-Dichlorobenzene	ND	50.00	50.55	101	56.50	113	70-120	11	0-26	
1,2-Dichloroethane	ND	50.00	54.87	110	60.90	122	64-142	10	0-20	
1,1-Dichloroethene	ND	50.00	50.92	102	55.97	112	52-136	9	0-21	
Ethylbenzene	ND	50.00	52.12	104	58.45	117	77-125	11	0-24	
Toluene	ND	50.00	52.75	105	58.53	117	72-126	10	0-23	
Trichloroethene	ND	50.00	50.51	101	56.74	113	74-128	12	0-22	
Vinyl Chloride	ND	50.00	54.49	109	56.26	113	67-133	3	0-20	
p/m-Xylene	ND	100.0	105.6	106	116.7	117	63-129	10	0-25	
o-Xylene	ND	50.00	52.20	104	57.76	116	62-128	10	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	49.98	100	55.50	111	68-134	10	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3005A Filt.
Method: EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
15-01-1511-2	**Sample**	**Aqueous**	**ICP/MS 04**	**01/26/15 00:00**	**01/28/15 11:59**	**150126S03**
15-01-1511-2	**PDS**	**Aqueous**	**ICP/MS 04**	**01/26/15 00:00**	**01/27/15 08:31**	**150126S03**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Antimony	ND	0.1000	0.09422	94	75-125	
Arsenic	ND	0.1000	0.09373	94	75-125	
Barium	0.05252	0.1000	0.1449	92	75-125	
Beryllium	ND	0.1000	0.09330	93	75-125	
Cadmium	ND	0.1000	0.08992	90	75-125	
Chromium	ND	0.1000	0.1011	101	75-125	
Copper	0.001256	0.1000	0.09289	92	75-125	
Lead	ND	0.1000	0.09506	95	75-125	
Nickel	0.001371	0.1000	0.08826	87	75-125	
Selenium	ND	0.1000	0.08392	84	75-125	
Silver	ND	0.05000	0.04708	94	75-125	
Thallium	ND	0.1000	0.09009	90	75-125	
Zinc	0.01878	0.1000	0.1007	82	75-125	
Aluminum	ND	0.1000	0.1196	120	75-125	
Iron	ND	5.100	4.713	92	75-125	
Manganese	0.001311	0.1000	0.08988	89	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-01-1355-3	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**01/29/15 16:10**	**F0129ALKD1**
15-01-1355-3	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**01/29/15 16:10**	**F0129ALKD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	440.0	438.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-01-1355-3	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**01/29/15 16:10**	**F0129HCOD1**
15-01-1355-3	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**01/29/15 16:10**	**F0129HCOD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Bicarbonate (as CaCO3)	440.0	438.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-01-1355-3	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**01/29/15 16:10**	**F0129CO3D1**
15-01-1355-3	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**01/29/15 16:10**	**F0129CO3D1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Carbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-01-1447-2	**Sample**	**Aqueous**	**SC 5**	**01/26/15 00:00**	**01/26/15 16:00**	**F0126TDSD1**
15-01-1447-2	**Sample Duplicate**	**Aqueous**	**SC 5**	**01/26/15 00:00**	**01/26/15 16:00**	**F0126TDSD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	630.0	670.0	6	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-01-1544-1	**Sample**	**Aqueous**	**N/A**	**01/27/15 00:00**	**01/27/15 14:00**	**F0127TSSD1**
15-01-1544-1	**Sample Duplicate**	**Aqueous**	**N/A**	**01/27/15 00:00**	**01/27/15 14:00**	**F0127TSSD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Suspended	26.80	26.00	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: N/A
Method: SM 4500 H+ B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-01-1394-1	**Sample**	**Aqueous**	**PH 1**	**N/A**	**01/23/15 18:45**	**F0123PHD1**
15-01-1394-1	**Sample Duplicate**	**Aqueous**	**PH 1**	**N/A**	**01/23/15 18:45**	**F0123PHD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	6.670	6.680	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: N/A
Method: SM 4500 N Org B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-01-1729-2	**Sample**	**Aqueous**	**BUR05**	**02/03/15 00:00**	**02/03/15 17:24**	**F0203TKND1**
15-01-1729-2	**Sample Duplicate**	**Aqueous**	**BUR05**	**02/03/15 00:00**	**02/03/15 17:24**	**F0203TKND1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Total Kjeldahl Nitrogen	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	01/23/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1404
San Antonio, TX 78249-1618		Preparation:	N/A
		Method:	EPA 300.0
Project: EAA 27122			Page 1 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-906-5371	**LCS**	**Aqueous**	**IC 15**	**N/A**	**01/23/15 11:43**	**150123L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Fluoride	2.500	2.463	99	90-110	
Chloride	50.00	49.50	99	90-110	
Bromide	5.000	5.048	101	90-110	
Nitrate (as N)	5.000	5.108	102	90-110	
Sulfate	50.00	50.06	100	90-110	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-739-97	**LCS**	**Aqueous**	**ACA 1**	**N/A**	**02/02/15 14:36**	**150202LO1**
099-12-739-97	**LCSD**	**Aqueous**	**ACA 1**	**N/A**	**02/02/15 14:36**	**150202LO1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.2000	0.1852	93	0.1862	93	90-110	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-859-575	**LCS**	**Aqueous**	**PH1/BUR03**	**N/A**	**01/29/15 16:10**	**F0129ALKB1**
099-15-859-575	**LCSD**	**Aqueous**	**PH1/BUR03**	**N/A**	**01/29/15 16:10**	**F0129ALKB1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	100.0	97.00	97	97.00	97	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-180-4400	**LCS**	**Aqueous**	**SC 5**	**01/26/15**	**01/26/15 16:00**	**F0126TDSL1**
099-12-180-4400	**LCSD**	**Aqueous**	**SC 5**	**01/26/15**	**01/26/15 16:00**	**F0126TDSL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100.0	85.00	85	90.00	90	80-120	6	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-010-7018	**LCS**	**Aqueous**	**N/A**	**01/27/15**	**01/27/15 14:00**	**F0127TSSL1**
099-09-010-7018	**LCSD**	**Aqueous**	**N/A**	**01/27/15**	**01/27/15 14:00**	**F0127TSSL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Suspended	100.0	85.00	85	91.00	91	80-120	7	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-5503	**LCS**	**Aqueous**	**TOC 8**	**01/29/15**	**01/30/15 08:20**	**F0129TOCL3**
099-05-097-5503	**LCSD**	**Aqueous**	**TOC 8**	**01/29/15**	**01/30/15 08:20**	**F0129TOCL3**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	10.00	10.50	105	10.80	108	80-120	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-115-1397	**LCS**	**Aqueous**	**TOC 8**	**01/23/15**	**01/24/15 07:33**	**F0123DOCL2**
099-05-115-1397	**LCSD**	**Aqueous**	**TOC 8**	**01/23/15**	**01/24/15 07:33**	**F0123DOCL2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	10.00	10.40	104	10.70	107	80-120	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants	Date Received: 01/23/15
6200 UTSA Blvd., Suite 102	Work Order: 15-01-1404
San Antonio, TX 78249-1618	Preparation: EPA 3005A Filt.
	Method: EPA 6010B
Project: EAA 27122	Page 8 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-683-1120	**LCS**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 17:53**	**150126L6FF**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Calcium	0.5000	0.4279	86	80-120	
Magnesium	0.5000	0.4097	82	80-120	
Potassium	5.000	4.428	89	80-120	
Sodium	5.000	4.045	81	80-120	
Strontium	0.5000	0.4624	92	80-120	
Silicon	0.5000	0.2593	52	80-120	X

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	01/23/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1404
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: EAA 27122			Page 9 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-693-719	**LCS**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 15:23**	**150126L03F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.1000	0.1029	103	80-120	73-127	
Arsenic	0.1000	0.1052	105	80-120	73-127	
Barium	0.1000	0.09971	100	80-120	73-127	
Beryllium	0.1000	0.1018	102	80-120	73-127	
Cadmium	0.1000	0.1012	101	80-120	73-127	
Chromium	0.1000	0.1053	105	80-120	73-127	
Copper	0.1000	0.09728	97	80-120	73-127	
Lead	0.1000	0.1023	102	80-120	73-127	
Nickel	0.1000	0.1020	102	80-120	73-127	
Selenium	0.1000	0.1022	102	80-120	73-127	
Silver	0.05000	0.05273	105	80-120	73-127	
Thallium	0.1000	0.09673	97	80-120	73-127	
Zinc	0.1000	0.1070	107	80-120	73-127	
Aluminum	0.1000	0.1175	118	80-120	73-127	
Iron	5.100	5.029	99	80-120	73-127	
Manganese	0.1000	0.1022	102	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	01/23/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1404
San Antonio, TX 78249-1618		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A
Project: EAA 27122			Page 10 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-763-484	**LCS**	**Aqueous**	**Mercury 04**	**01/29/15**	**01/29/15 17:03**	**150129L06F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.01066	107	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants	Date Received: 01/23/15
6200 UTSA Blvd., Suite 102	Work Order: 15-01-1404
San Antonio, TX 78249-1618	Preparation: EPA 1694
	Method: EPA 1694 (M) Caffeine
Project: EAA 27122	Page 11 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-376-10	**LCS**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**01/31/15 12:55**	**150129L19**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Caffeine	100.0	103.8	104	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8081A

Project: EAA 27122

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-778	**LCS**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 04:22**	**150124L08A**
099-12-529-778	**LCSD**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 04:36**	**150124L08A**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.5324	106	0.5460	109	50-135	36-149	3	0-25	
Gamma-BHC	0.5000	0.5466	109	0.5590	112	50-135	36-149	2	0-25	
Beta-BHC	0.5000	0.4827	97	0.4746	95	50-135	36-149	2	0-25	
Heptachlor	0.5000	0.5339	107	0.5402	108	50-135	36-149	1	0-25	
Delta-BHC	0.5000	0.6051	121	0.6324	126	50-135	36-149	4	0-25	
Aldrin	0.5000	0.4714	94	0.4712	94	50-135	36-149	0	0-25	
Heptachlor Epoxide	0.5000	0.5246	105	0.5276	106	50-135	36-149	1	0-25	
Endosulfan I	0.5000	0.5515	110	0.5555	111	50-135	36-149	1	0-25	
Dieldrin	0.5000	0.5378	108	0.5415	108	50-135	36-149	1	0-25	
4,4'-DDE	0.5000	0.4811	96	0.4794	96	50-135	36-149	0	0-25	
Endrin	0.5000	0.5335	107	0.5371	107	50-135	36-149	1	0-25	
Endrin Aldehyde	0.5000	0.6733	135	0.6103	122	50-135	36-149	10	0-25	
4,4'-DDD	0.5000	0.5057	101	0.5046	101	50-135	36-149	0	0-25	
Endosulfan II	0.5000	0.5349	107	0.5386	108	50-135	36-149	1	0-25	
4,4'-DDT	0.5000	0.5675	114	0.5887	118	50-135	36-149	4	0-25	
Endosulfan Sulfate	0.5000	0.5345	107	0.5392	108	50-135	36-149	1	0-25	
Methoxychlor	0.5000	0.5191	104	0.5246	105	50-135	36-149	1	0-25	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8082

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1000	**LCS**	**Aqueous**	**GC 31**	**01/24/15**	**02/04/15 10:25**	**150124L09**
099-12-533-1000	**LCSD**	**Aqueous**	**GC 31**	**01/24/15**	**02/04/15 10:44**	**150124L09**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	1.741	87	1.763	88	50-135	1	0-25	
Aroclor-1260	2.000	1.654	83	1.659	83	50-135	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8141A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-963-82	**LCS**	**Aqueous**	**GC 26**	**01/24/15**	**02/06/15 19:25**	**150124L03**
099-15-963-82	**LCSD**	**Aqueous**	**GC 26**	**01/24/15**	**02/06/15 20:09**	**150124L03**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	0.04000	0.04413	110	0.04395	110	30-130	13-147	0	0-30	
Bolstar	0.04000	0.04712	118	0.04669	117	30-130	13-147	1	0-30	
Chlorpyrifos	0.04000	0.04763	119	0.04691	117	30-130	13-147	2	0-30	
Coumaphos	0.04000	0.04735	118	0.04833	121	30-130	13-147	2	0-30	
Diazinon	0.04000	0.04995	125	0.04985	125	30-130	13-147	0	0-30	
Disulfoton	0.04000	0.04472	112	0.04335	108	30-130	13-147	3	0-30	
Ethoprop	0.04000	0.04985	125	0.04905	123	30-130	13-147	2	0-30	
Fensulfothion	0.04000	0.04732	118	0.04644	116	30-130	13-147	2	0-30	
Fenthion	0.04000	0.04798	120	0.04733	118	30-130	13-147	1	0-30	
Merphos	0.04000	0.06099	152	0.05996	150	30-130	13-147	2	0-30	X
Methyl Parathion	0.04000	0.04832	121	0.04758	119	30-130	13-147	2	0-30	
Phorate	0.04000	0.04887	122	0.04843	121	30-130	13-147	1	0-30	
Ronnel	0.04000	0.04912	123	0.04823	121	30-130	13-147	2	0-30	
Stirophos	0.04000	0.04117	103	0.04067	102	30-130	13-147	1	0-30	
Tokuthion	0.04000	0.04646	116	0.04588	115	30-130	13-147	1	0-30	
Trichloronate	0.04000	0.04793	120	0.04745	119	30-130	13-147	1	0-30	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 8151A
Method: EPA 8151A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-034-634	**LCS**	**Aqueous**	**GC 40**	**01/26/15**	**01/29/15 19:07**	**150126L04**
095-01-034-634	**LCSD**	**Aqueous**	**GC 40**	**01/26/15**	**01/29/15 19:30**	**150126L04**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	20.00	13.92	70	12.66	63	30-130	10	0-30	
2,4,5-T	2.000	1.485	74	1.365	68	30-130	8	0-30	
2,4-DB	20.00	13.54	68	12.15	61	30-130	11	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/23/15
Work Order: 15-01-1404
Preparation: EPA 3510C
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-3990	**LCS**	**Aqueous**	**GC/MS TT**	**01/24/15**	**01/28/15 13:24**	**150124L02B**
095-01-003-3990	**LCSD**	**Aqueous**	**GC/MS TT**	**01/24/15**	**01/28/15 20:49**	**150124L02B**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	200.0	155.6	78	156.2	78	61-120	51-130	0	0-20	
Acenaphthylene	200.0	149.3	75	150.2	75	55-120	44-131	1	0-20	
Butyl Benzyl Phthalate	200.0	150.3	75	149.1	75	56-122	45-133	1	0-20	
4-Chloro-3-Methylphenol	200.0	137.6	69	140.8	70	52-120	41-131	2	0-20	
2-Chlorophenol	200.0	147.0	74	145.8	73	47-120	35-132	1	0-20	
1,4-Dichlorobenzene	200.0	148.8	74	149.0	75	36-120	22-134	0	0-20	
Dimethyl Phthalate	200.0	149.3	75	153.3	77	60-120	50-130	3	0-20	
2,4-Dinitrotoluene	200.0	152.6	76	158.6	79	61-121	51-131	4	0-20	
Fluorene	200.0	158.6	79	163.1	82	67-120	58-129	3	0-20	
N-Nitroso-di-n-propylamine	200.0	131.5	66	130.6	65	39-123	25-137	1	0-20	
Naphthalene	200.0	151.2	76	152.8	76	54-120	43-131	1	0-20	
4-Nitrophenol	200.0	65.62	33	66.21	33	14-120	0-138	1	0-20	
Pentachlorophenol	200.0	139.5	70	140.5	70	31-127	15-143	1	0-20	
Phenol	200.0	65.48	33	65.97	33	17-120	0-137	1	0-20	
Pyrene	200.0	144.9	72	147.3	74	58-124	47-135	2	0-20	
1,2,4-Trichlorobenzene	200.0	148.3	74	151.5	76	49-120	37-132	2	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	01/23/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1404
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 17 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-16243	**LCS**	**Aqueous**	**GC/MS JJ**	**01/26/15**	**01/26/15 14:09**	**150126L019**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	47.84	96	80-120	73-127	
Carbon Tetrachloride	50.00	48.61	97	67-139	55-151	
Chlorobenzene	50.00	46.78	94	78-120	71-127	
1,2-Dibromoethane	50.00	48.32	97	80-120	73-127	
1,2-Dichlorobenzene	50.00	47.18	94	63-129	52-140	
1,2-Dichloroethane	50.00	49.34	99	70-130	60-140	
1,1-Dichloroethene	50.00	42.64	85	66-126	56-136	
Ethylbenzene	50.00	48.45	97	80-123	73-130	
Toluene	50.00	48.10	96	80-120	73-127	
Trichloroethene	50.00	50.19	100	80-122	73-129	
Vinyl Chloride	50.00	36.64	73	70-130	60-140	
p/m-Xylene	100.0	96.66	97	75-123	67-131	
o-Xylene	50.00	47.41	95	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	39.65	79	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	01/23/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1404
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 18 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-16235	**LCS**	**Aqueous**	**GC/MS LL**	**01/23/15**	**01/23/15 15:13**	**150123L019**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	48.75	97	80-120	73-127	
Carbon Tetrachloride	50.00	46.96	94	67-139	55-151	
Chlorobenzene	50.00	47.58	95	78-120	71-127	
1,2-Dibromoethane	50.00	48.06	96	80-120	73-127	
1,2-Dichlorobenzene	50.00	46.98	94	63-129	52-140	
1,2-Dichloroethane	50.00	50.76	102	70-130	60-140	
1,1-Dichloroethene	50.00	46.07	92	66-126	56-136	
Ethylbenzene	50.00	48.04	96	80-123	73-130	
Toluene	50.00	48.71	97	80-120	73-127	
Trichloroethene	50.00	46.15	92	80-122	73-129	
Vinyl Chloride	50.00	47.38	95	70-130	60-140	
p/m-Xylene	100.0	95.69	96	75-123	67-131	
o-Xylene	50.00	48.05	96	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	47.30	95	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-01-1404 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 1694 (M) Caffeine	EPA 1694	262	LC/TQ 2	1
EPA 300.0	N/A	650	IC 15	1
EPA 365.1	N/A	735	ACA 1	1
EPA 6010B	EPA 3005A Filt.	771	ICP 7300	1
EPA 6020	EPA 3005A Filt.	776	ICP/MS 03	1
EPA 7470A	EPA 7470A Filt.	915	Mercury 04	1
EPA 8081A	EPA 3510C	669	GC 51	1
EPA 8082	EPA 3510C	944	GC 31	1
EPA 8141A	EPA 3510C	949	GC 26	1
EPA 8151A	EPA 8151A	944	GC 40	1
EPA 8260B	EPA 5030C	959	GC/MS JJ	2
EPA 8260B	EPA 5030C	959	GC/MS LL	2
EPA 8270C	EPA 3510C	923	GC/MS TT	1
SM 2320B	N/A	885	PH1/BUR03	1
SM 2540 C	N/A	689	SC 5	1
SM 2540 D	N/A	689	N/A	1
SM 4500 H+ B	N/A	688	PH 1	1
SM 4500 N Org B	N/A	685	BUR05	1
SM 5310 B	N/A	735	TOC 8	1

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Glossary of Terms and Qualifiers

Work Order: 15-01-1404 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **15-01-1404**

DATE: 1/22/15

PAGE: 1 OF 3

LABORATORY CLIENT: SWCA Environmental Consultants

ADDRESS: 6200 UTSA Blvd. Suite 102

CITY: San Antonio STATE: TX ZIP: 78249-1618

TEL: 210.877.2847 E-MAIL: PPearce@swca.com

CLIENT PROJECT NAME / NUMBER: EAA 27122

P.O. NO.:

PROJECT CONTACT: Philip Pearce

SAMPLER(S): (PRINT) PHILIP PEARCE

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 10 Days (standard)

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Samples for EPA 6010B, EPA 6020, and EPA 7470 Metals are field filtered

EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn

Please also analyze each sample for pH.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 6010B (Si, Ca, Mg, K, Na, Sr)	EPA 6020 (See Comments)	EPA 7470A Mercury	EPA 1694 (M) Caffeine	EPA 8081A Organochlorine Pesticides	EPA 8082 PCB Aroclors	EPA 8141A Organophosphorus Pest	EPA 8151A Chlorinated Herbicides	EPA 8270C Semi-Volatile Organics	EPA 8260B Volatile Organics	EPA 300 Anions (F, Cl, Br, NO3, SO4, CO3)	EPA 365.1 Total Phosphorus	SM 2320B Alkalinity: Total, Bicarb, Carb	SM 5310B TOC	SM 5310B DOC	SM 5310B Solids, Total Dissolved	SM 4500 N Org B TKN	EPA 160.2 TSS
1	HCS 210 Lead	1/22/15	00:36	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	HCS 240 Lead	1/22/15	00:51	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	HCS 250 Lead	1/22/15	00:35	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	HCS 260 Lead	1/22/15	1:10	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	HCS 270 Lead	1/22/15	00:54	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 1/22/15	Time: 09:13
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 1/23/15	Time: 1000

06/02/14 Revision

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1404

SWCA INC
6200 UTSA BLVD STE 102
SAN ANTONIO, TX 782491618
UNITED STATES US

ACTWGT: 54.2 LB
CAD: /POS1525
DIMS: 23x13x13 IN

BILL SENDER

TO

CAL SCIENCE
7440 LINCOLN WAY

GARDEN GROVE CA 92841
(714) 895-5494 REF:
INV:
PO: DEPT:

FedEx Express

1 of 5

TRK# 0200 8066 6158 0190

MASTER

FRI - 23 JAN AA
STANDARD OVERNIGHT

A7 APVA

92841
CA-US SNA

SWCA INC
6200 UTSA BLVD STE 102
SAN ANTONIO, TX 782491618
UNITED STATES US

CAD: /POS1525
DIMS: 23x13x13 IN

BILL SENDER

TO

CAL SCIENCE
7440 LINCOLN WAY

GARDEN GROVE CA 92841
(714) 895-5494 REF:
INV:
PO: DEPT:

FedEx Express

2 of 5

MPS# 0681 7801 6964 1730

Mstr# 8066 6158 0190 0200

FRI - 23 JAN AA
STANDARD OVERNIGHT

A7 APVA

92841
CA-US SNA

ORIGIN ID:NIRA (210) 877-2847
SWCA INC
6200 UTSA BLVD STE 102
SAN ANTONIO, TX 782491618
UNITED STATES US

P DATE: 22JAN15
TWGT: 53.0 LB
AD: /POS1525
IMS: 23x13x13 IN

JILL SENDER

TO

CAL SCIENCE
7440 LINCOLN WAY

GARDEN GROVE CA 92841
(714) 895-5494 REF:
INV:
PO: DEPT:

FedEx Express

3 of 5

MPS# 0681 7801 6964 1741

Mstr# 8066 6158 0190 0200

FRI - 23 JAN AA
STANDARD OVERNIGHT

A7 APVA

92841
CA-US SNA

ORIGIN ID:NIRA (210) 877-2847
SWCA INC
6200 UTSA BLVD STE 102
SAN ANTONIO, TX 782491618
UNITED STATES US

SHIP DATE: 22JAN15
ACTWGT: 61.1 LB
CAD: /POS1525
DIMS: 23x13x13 IN

BILL SENDER

TO

CAL SCIENCE
7440 LINCOLN WAY

GARDEN GROVE CA 92841
(714) 895-5494 REF:
INV:
PO: DEPT:

FedEx Express

4 of 5

MPS# 0681 7801 6964 1752

Mstr# 8066 6158 0190 0200

FRI - 23 JAN AA
STANDARD OVERNIGHT

A7 APVA

92841
CA-US SNA

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5 of 5

MPS# 0681 7801 6964 1763

Mstr# 8066 6158 0190

A7 APVA

ORIGIN ID:NIRA (210) 877-2847
SWCA INC
6200 UTSA BLVD STE 102
SAN ANTONIO, TX 782491618
UNITED STATES US

TO

CAL SCIENCE
7440 LINCOLN WAY

GARDEN GROVE CA 92

(714) 895-5494
INV:
PO:
REF:

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WORK ORDER #: 15-01-1404

SAMPLE RECEIPT FORM

Cooler 1 of 5

CLIENT: SWCA DATE: 01/23/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 1.7 °C + 0.2 °C (CF) = 1.9 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** 15

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A **Checked by:** 15

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** 689

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOA**h** (3) ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☑1AGB ☐1AGB**na$_2$** ☑1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☑250CGB**s** (2) ☐1PB ☐1PB**na** ☐500PB

☐250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☑2.5 gal. cube ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 689

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 846

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** 846

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WORK ORDER #: 15-01-1404

SAMPLE RECEIPT FORM

Cooler 2 of 5

CLIENT: SWCA

DATE: 01/23/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.4 °C + 0.2 °C (CF) = 2.6 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEALS INTACT:

☑ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 15

☐ Sample ☐ _____ ☐ No (Not Intact) ☑ Not Present Checked by: 689

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOA**h** (3) ☐VOA**na₂** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☑1AGB ☐1AGB**na₂** ☑1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☑250CGB**s** (2) ☐1PB ☐1PB**na** ☐500PB

☐250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na₂** ☑2.5 gal cube ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 689

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: SM

Preservative: **h:** HCL **n:** HNO_3 **na₂:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: SM

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WORK ORDER #: 15-01-1404

SAMPLE RECEIPT FORM

Cooler 3 of 5

CLIENT: SWCA

DATE: 01/23/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.7 °C + 0.2 °C (CF) = 2.9 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEALS INTACT:

☑ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 15

☐ Sample ☐ _____ ☐ No (Not Intact) ☑ Not Present Checked by: 689

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOA**h** (3) ☐VOA**na₂** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☑1AGB ☐1AGB**na₂** ☑1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☑250CGB**s** (2) ☐1PB ☐1PB**na** ☐500PB

☐250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na₂** ☑ 2.5 gal cube ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 689

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: JM

Preservative: h: HCL n: HNO_3 na₂: $Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: JM

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WORK ORDER #: 15-01-1404

SAMPLE RECEIPT FORM

Cooler 4 of 5

CLIENT: SWCA DATE: 01/23/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.0 °C + 0.2 °C (CF) = 2.2 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 15

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 689

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOA**h** (3) ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☑1AGB ☐1AGB**na$_2$** ☑1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☑250CGB**s** (2) ☐1PB ☐1PB**na** ☐500PB

☐250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☑ 2.5 gal cube ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 689

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** [illegible]

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** [illegible]

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WORK ORDER #: 15-01-1404

SAMPLE RECEIPT FORM

Cooler 5 of 5

CLIENT: SWCA

DATE: 01/23/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.3 °C + 0.2 °C (CF) = 2.5 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 15

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 689

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOA**h** (3) ☐VOA**na₂** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☑1AGB ☐1AGB**na₂** ☑1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☑250CGB**s** (2) ☐1PB ☐1PB**na** ☐500PB

☐250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na₂** ☑2.5 gal cube ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 689

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: SM6

Preservative: **h:** HCL **n:** HNO_3 **na₂:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: SM

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WORK ORDER #: 15-01-1404

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

- ☐ **Sample(s) NOT RECEIVED but listed on COC**
- ☐ **Sample(s) received but NOT LISTED on COC**
- ☑ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **Improper preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☑ **Sample label(s) do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☑ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of Container(s)**
  - ☐ **Analysis**
- ☐ **Sample container(s) compromised** – Note in comments
  - ☐ **Water present in sample container**
  - ☐ **Broken**
- ☐ **Sample container(s) not labeled**
- ☐ **Air sample container(s) compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

Comments:

(-1) through (-3) pH expired.

(-4) Collection time per label is 00:10

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: 6B7 01/23/15

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WORK ORDER NUMBER: 15-01-1511

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: SWCA Environmental Consultants

Client Project Name: EAA 27122

Attention: Philip Pearce
6200 UTSA Blvd.
Suite 102
San Antonio, TX 78249-1618

Approved for release on 02/10/2015 by:
Don Burley
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: EAA 27122
Work Order Number: 15-01-1511

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Work Order Narrative

Work Order: 15-01-1511 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 01/24/15. They were assigned to Work Order 15-01-1511.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

EPA 6010B Silicon LCS recovery was below the control limits. Silicon was detected in each of the samples. The results may be biased low.

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Sample Summary

Client:	SWCA Environmental Consultants	Work Order:	15-01-1511
	6200 UTSA Blvd., Suite 102	Project Name:	EAA 27122
	San Antonio, TX 78249-1618	PO Number:	
		Date/Time Received:	01/24/15 10:00
		Number of Containers:	109
Attn:	Philip Pearce		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
HCS 210 Peak	15-01-1511-1	01/22/15 16:28	9	Aqueous
HCS 240 Peak	15-01-1511-2	01/22/15 16:51	9	Aqueous
HCS 250 Peak	15-01-1511-3	01/22/15 16:40	9	Aqueous
HCS 260 Peak	15-01-1511-4	01/22/15 17:03	9	Aqueous
HCS 270 Peak	15-01-1511-5	01/22/15 16:55	9	Aqueous
HCS 210 Trail	15-01-1511-6	01/23/15 03:01	9	Aqueous
HCS 240 Trail	15-01-1511-7	01/23/15 03:21	9	Aqueous
HCS 250 Trail	15-01-1511-8	01/23/15 03:03	9	Aqueous
HCS 260 Trail	15-01-1511-9	01/23/15 03:36	9	Aqueous
HCS 270 Trail	15-01-1511-10	01/23/15 03:30	9	Aqueous
FDHCS 260 Trail	15-01-1511-11	01/23/15 03:36	9	Aqueous
FDHCS 270 Trail	15-01-1511-12	01/23/15 03:30	9	Aqueous
TB01	15-01-1511-13	01/23/15 00:00	1	Aqueous

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-01-1511-1-D**	**01/22/15 16:28**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 17:55**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	19.2	0.100	0.0118	1.00	
Magnesium	2.17	0.100	0.00336	1.00	B
Potassium	1.56	0.500	0.103	1.00	
Sodium	1.04	0.500	0.103	1.00	
Strontium	0.0978	0.0300	0.00277	1.00	
Silicon	1.07	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-01-1511-2-D**	**01/22/15 16:51**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 18:00**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	75.6	0.100	0.0118	1.00	
Magnesium	14.6	0.100	0.00336	1.00	B
Potassium	1.50	0.500	0.103	1.00	
Sodium	11.7	0.500	0.103	1.00	
Strontium	0.642	0.0300	0.00277	1.00	
Silicon	3.45	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-01-1511-3-D**	**01/22/15 16:40**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 18:01**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	70.9	0.100	0.0118	1.00	
Magnesium	13.8	0.100	0.00336	1.00	B
Potassium	1.68	0.500	0.103	1.00	
Sodium	11.0	0.500	0.103	1.00	
Strontium	0.597	0.0300	0.00277	1.00	
Silicon	3.24	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-01-1511-4-D**	**01/22/15 17:03**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 18:09**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	47.0	0.100	0.0118	1.00	
Magnesium	5.45	0.100	0.00336	1.00	B
Potassium	5.26	0.500	0.103	1.00	
Sodium	9.44	0.500	0.103	1.00	
Strontium	0.262	0.0300	0.00277	1.00	
Silicon	6.77	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-01-1511-5-D**	**01/22/15 16:55**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 18:11**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	40.4	0.100	0.0118	1.00	
Magnesium	5.15	0.100	0.00336	1.00	B
Potassium	4.92	0.500	0.103	1.00	
Sodium	9.94	0.500	0.103	1.00	
Strontium	0.262	0.0300	0.00277	1.00	
Silicon	3.09	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-01-1511-6-D**	**01/23/15 03:01**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 18:12**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	22.4	0.100	0.0118	1.00	
Magnesium	2.76	0.100	0.00336	1.00	B
Potassium	1.77	0.500	0.103	1.00	
Sodium	1.53	0.500	0.103	1.00	
Strontium	0.128	0.0300	0.00277	1.00	
Silicon	0.956	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-01-1511-7-D**	**01/23/15 03:21**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 18:14**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	81.3	0.100	0.0118	1.00	
Magnesium	15.7	0.100	0.00336	1.00	B
Potassium	1.43	0.500	0.103	1.00	
Sodium	12.3	0.500	0.103	1.00	
Strontium	0.682	0.0300	0.00277	1.00	
Silicon	3.70	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-01-1511-8-D**	**01/23/15 03:03**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 18:16**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	79.5	0.100	0.0118	1.00	
Magnesium	14.6	0.100	0.00336	1.00	B
Potassium	1.55	0.500	0.103	1.00	
Sodium	12.4	0.500	0.103	1.00	
Strontium	0.675	0.0300	0.00277	1.00	
Silicon	3.40	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-01-1511-9-D**	**01/23/15 03:36**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 18:17**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	57.6	0.100	0.0118	1.00	
Magnesium	8.87	0.100	0.00336	1.00	B
Potassium	3.91	0.500	0.103	1.00	
Sodium	10.2	0.500	0.103	1.00	
Strontium	0.409	0.0300	0.00277	1.00	
Silicon	3.52	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-01-1511-10-D**	**01/23/15 03:30**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 18:19**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	57.8	0.100	0.0118	1.00	
Magnesium	8.83	0.100	0.00336	1.00	B
Potassium	4.06	0.500	0.103	1.00	
Sodium	10.1	0.500	0.103	1.00	
Strontium	0.414	0.0300	0.00277	1.00	
Silicon	3.48	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-01-1511-11-D**	**01/23/15 03:36**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 18:21**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	56.0	0.100	0.0118	1.00	
Magnesium	8.74	0.100	0.00336	1.00	B
Potassium	3.82	0.500	0.103	1.00	
Sodium	10.0	0.500	0.103	1.00	
Strontium	0.401	0.0300	0.00277	1.00	
Silicon	3.68	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-01-1511-12-D**	**01/23/15 03:30**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 18:23**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	55.2	0.100	0.0118	1.00	
Magnesium	8.93	0.100	0.00336	1.00	B
Potassium	3.86	0.500	0.103	1.00	
Sodium	9.77	0.500	0.103	1.00	
Strontium	0.399	0.0300	0.00277	1.00	
Silicon	3.64	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-683-1120**	**N/A**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 17:52**	**150126L6FF**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	ND	0.100	0.0118	1.00	
Magnesium	0.0522	0.100	0.00336	1.00	J
Potassium	ND	0.500	0.103	1.00	
Sodium	ND	0.500	0.103	1.00	
Strontium	ND	0.0300	0.00277	1.00	
Silicon	ND	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-01-1511-1-D**	**01/22/15 16:28**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 08:45**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000137	0.00100	0.0000995	1.00	J
Arsenic	0.00110	0.00100	0.000386	1.00	
Barium	0.0115	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000452	0.00100	0.000402	1.00	J
Copper	0.00140	0.00100	0.000140	1.00	
Lead	0.000447	0.00100	0.0000898	1.00	J
Nickel	0.000703	0.00100	0.000132	1.00	J
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00893	0.00500	0.000479	1.00	
Aluminum	0.135	0.0500	0.00331	1.00	
Iron	0.100	0.0500	0.00926	1.00	
Manganese	0.00275	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-01-1511-2-D**	**01/22/15 16:51**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/28/15 11:59**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0525	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00126	0.00100	0.000140	1.00	
Lead	0.0000962	0.00100	0.0000898	1.00	J
Nickel	0.00137	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0188	0.00500	0.000479	1.00	
Aluminum	0.0212	0.0500	0.00331	1.00	J
Iron	0.0408	0.0500	0.00926	1.00	J
Manganese	0.00131	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-01-1511-3-D**	**01/22/15 16:40**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 08:59**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	0.000565	0.00100	0.000386	1.00	J
Barium	0.0494	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000832	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00156	0.00100	0.000132	1.00	
Selenium	0.000238	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00538	0.00500	0.000479	1.00	
Aluminum	0.00453	0.0500	0.00331	1.00	J
Iron	0.0385	0.0500	0.00926	1.00	J
Manganese	0.00189	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-01-1511-4-D**	**01/22/15 17:03**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 09:03**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000177	0.00100	0.0000995	1.00	J
Arsenic	0.00237	0.00100	0.000386	1.00	
Barium	0.0481	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.00276	0.00100	0.000402	1.00	
Copper	0.00280	0.00100	0.000140	1.00	
Lead	0.00139	0.00100	0.0000898	1.00	
Nickel	0.00270	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0514	0.00500	0.000479	1.00	
Aluminum	2.25	0.0500	0.00331	1.00	
Iron	1.25	0.0500	0.00926	1.00	
Manganese	0.0352	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-01-1511-5-D**	**01/22/15 16:55**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 09:06**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000146	0.00100	0.0000995	1.00	J
Arsenic	0.00182	0.00100	0.000386	1.00	
Barium	0.0378	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00157	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00167	0.00100	0.000132	1.00	
Selenium	0.000175	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00561	0.00500	0.000479	1.00	
Aluminum	0.0850	0.0500	0.00331	1.00	
Iron	0.101	0.0500	0.00926	1.00	
Manganese	0.0126	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-01-1511-6-D**	**01/23/15 03:01**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 09:09**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	0.000818	0.00100	0.000386	1.00	J
Barium	0.0141	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00135	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.000886	0.00100	0.000132	1.00	J
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00793	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0424	0.0500	0.00926	1.00	J
Manganese	0.00164	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-01-1511-7-D**	**01/23/15 03:21**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 09:13**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	0.000729	0.00100	0.000386	1.00	J
Barium	0.0575	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00100	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00230	0.00100	0.000132	1.00	
Selenium	0.000395	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00392	0.00500	0.000479	1.00	J
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0315	0.0500	0.00926	1.00	J
Manganese	0.000980	0.00100	0.000139	1.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-01-1511-8-D**	**01/23/15 03:03**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 09:16**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	0.000486	0.00100	0.000386	1.00	J
Barium	0.0576	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00102	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00184	0.00100	0.000132	1.00	
Selenium	0.000379	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0237	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0378	0.0500	0.00926	1.00	J
Manganese	0.00155	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-01-1511-9-D**	**01/23/15 03:36**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 09:20**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000118	0.00100	0.0000995	1.00	J
Arsenic	0.00140	0.00100	0.000386	1.00	
Barium	0.0471	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00142	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00191	0.00100	0.000132	1.00	
Selenium	0.000207	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00978	0.00500	0.000479	1.00	
Aluminum	0.0224	0.0500	0.00331	1.00	J
Iron	0.0678	0.0500	0.00926	1.00	
Manganese	0.00767	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-01-1511-10-D**	**01/23/15 03:30**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 09:23**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000110	0.00100	0.0000995	1.00	J
Arsenic	0.00109	0.00100	0.000386	1.00	
Barium	0.0498	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00142	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00180	0.00100	0.000132	1.00	
Selenium	0.000171	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00605	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0535	0.0500	0.00926	1.00	
Manganese	0.00408	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-01-1511-11-D**	**01/23/15 03:36**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 09:27**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000104	0.00100	0.0000995	1.00	J
Arsenic	0.00134	0.00100	0.000386	1.00	
Barium	0.0466	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000525	0.00100	0.000402	1.00	J
Copper	0.00141	0.00100	0.000140	1.00	
Lead	0.000110	0.00100	0.0000898	1.00	J
Nickel	0.00171	0.00100	0.000132	1.00	
Selenium	0.000180	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0135	0.00500	0.000479	1.00	
Aluminum	0.188	0.0500	0.00331	1.00	
Iron	0.129	0.0500	0.00926	1.00	
Manganese	0.00662	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-01-1511-12-D**	**01/23/15 03:30**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 09:30**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000108	0.00100	0.0000995	1.00	J
Arsenic	0.00121	0.00100	0.000386	1.00	
Barium	0.0467	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000417	0.00100	0.000402	1.00	J
Copper	0.00186	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00204	0.00100	0.000132	1.00	
Selenium	0.000258	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0105	0.00500	0.000479	1.00	
Aluminum	0.0847	0.0500	0.00331	1.00	
Iron	0.0808	0.0500	0.00926	1.00	
Manganese	0.00446	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-693-719**	**N/A**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 08:18**	**150126L03F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	ND	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	ND	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	ND	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	ND	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	ND	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-01-1511-1-D**	**01/22/15 16:28**	**Aqueous**	**Mercury 04**	**01/30/15**	**01/30/15 17:47**	**150130L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-01-1511-2-D**	**01/22/15 16:51**	**Aqueous**	**Mercury 04**	**01/30/15**	**01/30/15 17:50**	**150130L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-01-1511-3-D**	**01/22/15 16:40**	**Aqueous**	**Mercury 04**	**01/30/15**	**01/30/15 17:52**	**150130L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-01-1511-4-D**	**01/22/15 17:03**	**Aqueous**	**Mercury 04**	**01/30/15**	**01/30/15 17:54**	**150130L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-01-1511-5-D**	**01/22/15 16:55**	**Aqueous**	**Mercury 04**	**01/30/15**	**01/30/15 17:56**	**150130L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-01-1511-6-D**	**01/23/15 03:01**	**Aqueous**	**Mercury 04**	**01/30/15**	**01/30/15 17:58**	**150130L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-01-1511-7-D**	**01/23/15 03:21**	**Aqueous**	**Mercury 04**	**01/30/15**	**01/30/15 18:05**	**150130L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-01-1511-8-D**	**01/23/15 03:03**	**Aqueous**	**Mercury 04**	**01/30/15**	**01/30/15 18:07**	**150130L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-01-1511-9-D**	**01/23/15 03:36**	**Aqueous**	**Mercury 04**	**01/30/15**	**01/30/15 18:10**	**150130L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-01-1511-10-D**	**01/23/15 03:30**	**Aqueous**	**Mercury 04**	**01/30/15**	**01/30/15 18:12**	**150130L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-01-1511-11-D**	**01/23/15 03:36**	**Aqueous**	**Mercury 04**	**01/30/15**	**01/30/15 18:14**	**150130L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-01-1511-12-D**	**01/23/15 03:30**	**Aqueous**	**Mercury 04**	**01/30/15**	**01/30/15 18:17**	**150130L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-763-485**	**N/A**	**Aqueous**	**Mercury 04**	**01/30/15**	**01/30/15 16:47**	**150130L06F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
Units: ng/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-01-1511-1-i**	**01/22/15 16:28**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**01/31/15 18:03**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	95	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	52	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-01-1511-2-i**	**01/22/15 16:51**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**01/31/15 18:11**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	69	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-01-1511-3-i**	**01/22/15 16:40**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**01/31/15 18:19**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	38	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	48	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-01-1511-4-i**	**01/22/15 17:03**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**02/09/15 14:32**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	130	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	37	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-01-1511-5-i**	**01/22/15 16:55**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**02/02/15 17:42**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	130	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	35	31-200	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
Units: ng/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-01-1511-6-i**	**01/23/15 03:01**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**02/02/15 17:51**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	140	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	44	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-01-1511-7-i**	**01/23/15 03:21**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**02/02/15 17:59**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	18	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	49	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-01-1511-8-i**	**01/23/15 03:03**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**02/02/15 18:07**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	11	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	45	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-01-1511-9-i**	**01/23/15 03:36**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**02/02/15 18:16**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	110	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	38	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-01-1511-10-i**	**01/23/15 03:30**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**02/02/15 18:24**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	100	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	41	31-200	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
Units: ng/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-01-1511-11-i**	**01/23/15 03:36**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**02/02/15 18:32**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	67	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	42	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-01-1511-12-i**	**01/23/15 03:30**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**02/02/15 18:41**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	65	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	39	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-376-10**	**N/A**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**01/31/15 17:06**	**150129L19**

Parameter	Result	RL	DF	Qualifiers
Caffeine	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	49	31-200	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-01-1511-1-I**	**01/22/15 16:28**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 05:05**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.098	0.027	1.00	
Gamma-BHC	ND	0.098	0.029	1.00	
Beta-BHC	ND	0.098	0.029	1.00	
Heptachlor	ND	0.098	0.026	1.00	
Delta-BHC	ND	0.098	0.028	1.00	
Aldrin	ND	0.098	0.026	1.00	
Heptachlor Epoxide	ND	0.098	0.025	1.00	
Endosulfan I	ND	0.098	0.027	1.00	
Dieldrin	ND	0.098	0.028	1.00	
4,4'-DDE	ND	0.098	0.026	1.00	
Endrin	ND	0.098	0.030	1.00	
Endrin Aldehyde	ND	0.098	0.026	1.00	
4,4'-DDD	ND	0.098	0.027	1.00	
Endosulfan II	ND	0.098	0.027	1.00	
4,4'-DDT	ND	0.098	0.026	1.00	
Endosulfan Sulfate	ND	0.098	0.029	1.00	
Methoxychlor	ND	0.098	0.025	1.00	
Chlordane	ND	0.98	0.32	1.00	
Toxaphene	ND	2.0	0.58	1.00	
Endrin Ketone	ND	0.098	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	50-135	
2,4,5,6-Tetrachloro-m-Xylene	98	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-01-1511-2-I**	**01/22/15 16:51**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 05:19**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.097	0.027	1.00	
Gamma-BHC	ND	0.097	0.029	1.00	
Beta-BHC	ND	0.097	0.029	1.00	
Heptachlor	ND	0.097	0.026	1.00	
Delta-BHC	ND	0.097	0.028	1.00	
Aldrin	ND	0.097	0.026	1.00	
Heptachlor Epoxide	ND	0.097	0.024	1.00	
Endosulfan I	ND	0.097	0.027	1.00	
Dieldrin	ND	0.097	0.028	1.00	
4,4'-DDE	ND	0.097	0.026	1.00	
Endrin	ND	0.097	0.030	1.00	
Endrin Aldehyde	ND	0.097	0.026	1.00	
4,4'-DDD	ND	0.097	0.026	1.00	
Endosulfan II	ND	0.097	0.026	1.00	
4,4'-DDT	ND	0.097	0.026	1.00	
Endosulfan Sulfate	ND	0.097	0.028	1.00	
Methoxychlor	ND	0.097	0.024	1.00	
Chlordane	ND	0.97	0.32	1.00	
Toxaphene	ND	1.9	0.57	1.00	
Endrin Ketone	ND	0.097	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	104	50-135	
2,4,5,6-Tetrachloro-m-Xylene	103	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-01-1511-3-I**	**01/22/15 16:40**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 05:34**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.097	0.027	1.00	
Gamma-BHC	ND	0.097	0.029	1.00	
Beta-BHC	ND	0.097	0.029	1.00	
Heptachlor	ND	0.097	0.026	1.00	
Delta-BHC	ND	0.097	0.028	1.00	
Aldrin	ND	0.097	0.026	1.00	
Heptachlor Epoxide	ND	0.097	0.024	1.00	
Endosulfan I	ND	0.097	0.027	1.00	
Dieldrin	ND	0.097	0.028	1.00	
4,4'-DDE	ND	0.097	0.026	1.00	
Endrin	ND	0.097	0.030	1.00	
Endrin Aldehyde	ND	0.097	0.026	1.00	
4,4'-DDD	ND	0.097	0.026	1.00	
Endosulfan II	ND	0.097	0.026	1.00	
4,4'-DDT	ND	0.097	0.026	1.00	
Endosulfan Sulfate	ND	0.097	0.028	1.00	
Methoxychlor	ND	0.097	0.024	1.00	
Chlordane	ND	0.97	0.32	1.00	
Toxaphene	ND	1.9	0.57	1.00	
Endrin Ketone	ND	0.097	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	105	50-135	
2,4,5,6-Tetrachloro-m-Xylene	105	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-01-1511-4-I**	**01/22/15 17:03**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 05:48**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	50-135	
2,4,5,6-Tetrachloro-m-Xylene	97	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-01-1511-5-I**	**01/22/15 16:55**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 06:02**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.098	0.027	1.00	
Gamma-BHC	ND	0.098	0.029	1.00	
Beta-BHC	ND	0.098	0.029	1.00	
Heptachlor	ND	0.098	0.026	1.00	
Delta-BHC	ND	0.098	0.028	1.00	
Aldrin	ND	0.098	0.026	1.00	
Heptachlor Epoxide	ND	0.098	0.025	1.00	
Endosulfan I	ND	0.098	0.027	1.00	
Dieldrin	ND	0.098	0.028	1.00	
4,4'-DDE	ND	0.098	0.026	1.00	
Endrin	ND	0.098	0.030	1.00	
Endrin Aldehyde	ND	0.098	0.026	1.00	
4,4'-DDD	ND	0.098	0.027	1.00	
Endosulfan II	ND	0.098	0.027	1.00	
4,4'-DDT	ND	0.098	0.026	1.00	
Endosulfan Sulfate	ND	0.098	0.029	1.00	
Methoxychlor	ND	0.098	0.025	1.00	
Chlordane	ND	0.98	0.32	1.00	
Toxaphene	ND	2.0	0.58	1.00	
Endrin Ketone	ND	0.098	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	50-135	
2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-01-1511-6-I**	**01/23/15 03:01**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 06:17**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	50-135	
2,4,5,6-Tetrachloro-m-Xylene	99	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-01-1511-7-I**	**01/23/15 03:21**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 06:31**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.097	0.027	1.00	
Gamma-BHC	ND	0.097	0.029	1.00	
Beta-BHC	ND	0.097	0.029	1.00	
Heptachlor	ND	0.097	0.026	1.00	
Delta-BHC	ND	0.097	0.028	1.00	
Aldrin	ND	0.097	0.026	1.00	
Heptachlor Epoxide	ND	0.097	0.024	1.00	
Endosulfan I	ND	0.097	0.027	1.00	
Dieldrin	ND	0.097	0.028	1.00	
4,4'-DDE	ND	0.097	0.026	1.00	
Endrin	ND	0.097	0.030	1.00	
Endrin Aldehyde	ND	0.097	0.026	1.00	
4,4'-DDD	ND	0.097	0.026	1.00	
Endosulfan II	ND	0.097	0.026	1.00	
4,4'-DDT	ND	0.097	0.026	1.00	
Endosulfan Sulfate	ND	0.097	0.028	1.00	
Methoxychlor	ND	0.097	0.024	1.00	
Chlordane	ND	0.97	0.32	1.00	
Toxaphene	ND	1.9	0.57	1.00	
Endrin Ketone	ND	0.097	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	97	50-135	
2,4,5,6-Tetrachloro-m-Xylene	98	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-01-1511-8-I**	**01/23/15 03:03**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 06:45**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.096	0.027	1.00	
Gamma-BHC	ND	0.096	0.029	1.00	
Beta-BHC	ND	0.096	0.029	1.00	
Heptachlor	ND	0.096	0.025	1.00	
Delta-BHC	ND	0.096	0.027	1.00	
Aldrin	ND	0.096	0.026	1.00	
Heptachlor Epoxide	ND	0.096	0.024	1.00	
Endosulfan I	ND	0.096	0.027	1.00	
Dieldrin	ND	0.096	0.027	1.00	
4,4'-DDE	ND	0.096	0.026	1.00	
Endrin	ND	0.096	0.029	1.00	
Endrin Aldehyde	ND	0.096	0.025	1.00	
4,4'-DDD	ND	0.096	0.026	1.00	
Endosulfan II	ND	0.096	0.026	1.00	
4,4'-DDT	ND	0.096	0.026	1.00	
Endosulfan Sulfate	ND	0.096	0.028	1.00	
Methoxychlor	ND	0.096	0.024	1.00	
Chlordane	ND	0.96	0.32	1.00	
Toxaphene	ND	1.9	0.57	1.00	
Endrin Ketone	ND	0.096	0.023	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	50-135	
2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-01-1511-9-I**	**01/23/15 03:36**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 07:00**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.097	0.027	1.00	
Gamma-BHC	ND	0.097	0.029	1.00	
Beta-BHC	ND	0.097	0.029	1.00	
Heptachlor	ND	0.097	0.026	1.00	
Delta-BHC	ND	0.097	0.028	1.00	
Aldrin	ND	0.097	0.026	1.00	
Heptachlor Epoxide	ND	0.097	0.024	1.00	
Endosulfan I	ND	0.097	0.027	1.00	
Dieldrin	ND	0.097	0.028	1.00	
4,4'-DDE	ND	0.097	0.026	1.00	
Endrin	ND	0.097	0.030	1.00	
Endrin Aldehyde	ND	0.097	0.026	1.00	
4,4'-DDD	ND	0.097	0.026	1.00	
Endosulfan II	ND	0.097	0.026	1.00	
4,4'-DDT	ND	0.097	0.026	1.00	
Endosulfan Sulfate	ND	0.097	0.028	1.00	
Methoxychlor	ND	0.097	0.024	1.00	
Chlordane	ND	0.97	0.32	1.00	
Toxaphene	ND	1.9	0.57	1.00	
Endrin Ketone	ND	0.097	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	50-135	
2,4,5,6-Tetrachloro-m-Xylene	94	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-01-1511-10-I**	**01/23/15 03:30**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 07:14**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.097	0.027	1.00	
Gamma-BHC	ND	0.097	0.029	1.00	
Beta-BHC	ND	0.097	0.029	1.00	
Heptachlor	ND	0.097	0.026	1.00	
Delta-BHC	ND	0.097	0.028	1.00	
Aldrin	ND	0.097	0.026	1.00	
Heptachlor Epoxide	ND	0.097	0.024	1.00	
Endosulfan I	ND	0.097	0.027	1.00	
Dieldrin	ND	0.097	0.028	1.00	
4,4'-DDE	ND	0.097	0.026	1.00	
Endrin	ND	0.097	0.030	1.00	
Endrin Aldehyde	ND	0.097	0.026	1.00	
4,4'-DDD	ND	0.097	0.026	1.00	
Endosulfan II	ND	0.097	0.026	1.00	
4,4'-DDT	ND	0.097	0.026	1.00	
Endosulfan Sulfate	ND	0.097	0.028	1.00	
Methoxychlor	ND	0.097	0.024	1.00	
Chlordane	ND	0.97	0.32	1.00	
Toxaphene	ND	1.9	0.57	1.00	
Endrin Ketone	ND	0.097	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	92	50-135	
2,4,5,6-Tetrachloro-m-Xylene	94	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-01-1511-11-I**	**01/23/15 03:36**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 07:28**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	50-135	
2,4,5,6-Tetrachloro-m-Xylene	93	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-01-1511-12-I**	**01/23/15 03:30**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 07:43**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.097	0.027	1.00	
Gamma-BHC	ND	0.097	0.029	1.00	
Beta-BHC	ND	0.097	0.029	1.00	
Heptachlor	ND	0.097	0.026	1.00	
Delta-BHC	ND	0.097	0.028	1.00	
Aldrin	ND	0.097	0.026	1.00	
Heptachlor Epoxide	ND	0.097	0.024	1.00	
Endosulfan I	ND	0.097	0.027	1.00	
Dieldrin	ND	0.097	0.028	1.00	
4,4'-DDE	ND	0.097	0.026	1.00	
Endrin	ND	0.097	0.030	1.00	
Endrin Aldehyde	ND	0.097	0.026	1.00	
4,4'-DDD	ND	0.097	0.026	1.00	
Endosulfan II	ND	0.097	0.026	1.00	
4,4'-DDT	ND	0.097	0.026	1.00	
Endosulfan Sulfate	ND	0.097	0.028	1.00	
Methoxychlor	ND	0.097	0.024	1.00	
Chlordane	ND	0.97	0.32	1.00	
Toxaphene	ND	1.9	0.57	1.00	
Endrin Ketone	ND	0.097	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	50-135	
2,4,5,6-Tetrachloro-m-Xylene	80	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-529-778**	**N/A**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 04:50**	**150124L08A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	97	50-135	
2,4,5,6-Tetrachloro-m-Xylene	90	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-01-1511-1-I**	**01/22/15 16:28**	**Aqueous**	**GC 31**	**01/24/15**	**02/04/15 16:07**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.98	0.29	1.00	
Aroclor-1221	ND	0.98	0.28	1.00	
Aroclor-1232	ND	0.98	0.24	1.00	
Aroclor-1242	ND	0.98	0.18	1.00	
Aroclor-1248	ND	0.98	0.20	1.00	
Aroclor-1254	ND	0.98	0.22	1.00	
Aroclor-1260	ND	0.98	0.26	1.00	
Aroclor-1262	ND	0.98	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	68	50-135	
2,4,5,6-Tetrachloro-m-Xylene	80	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-01-1511-2-I**	**01/22/15 16:51**	**Aqueous**	**GC 31**	**01/24/15**	**02/04/15 16:26**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.97	0.29	1.00	
Aroclor-1221	ND	0.97	0.27	1.00	
Aroclor-1232	ND	0.97	0.24	1.00	
Aroclor-1242	ND	0.97	0.17	1.00	
Aroclor-1248	ND	0.97	0.20	1.00	
Aroclor-1254	ND	0.97	0.22	1.00	
Aroclor-1260	ND	0.97	0.26	1.00	
Aroclor-1262	ND	0.97	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	78	50-135	
2,4,5,6-Tetrachloro-m-Xylene	85	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-01-1511-3-I**	**01/22/15 16:40**	**Aqueous**	**GC 31**	**01/24/15**	**02/05/15 17:30**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.97	0.29	1.00	
Aroclor-1221	ND	0.97	0.27	1.00	
Aroclor-1232	ND	0.97	0.24	1.00	
Aroclor-1242	ND	0.97	0.17	1.00	
Aroclor-1248	ND	0.97	0.20	1.00	
Aroclor-1254	ND	0.97	0.22	1.00	
Aroclor-1260	ND	0.97	0.26	1.00	
Aroclor-1262	ND	0.97	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	50-135	
2,4,5,6-Tetrachloro-m-Xylene	95	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-01-1511-4-I**	**01/22/15 17:03**	**Aqueous**	**GC 31**	**01/24/15**	**02/05/15 17:49**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	50-135	
2,4,5,6-Tetrachloro-m-Xylene	99	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-01-1511-5-I**	**01/22/15 16:55**	**Aqueous**	**GC 31**	**01/24/15**	**02/05/15 18:08**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.98	0.29	1.00	
Aroclor-1221	ND	0.98	0.28	1.00	
Aroclor-1232	ND	0.98	0.24	1.00	
Aroclor-1242	ND	0.98	0.18	1.00	
Aroclor-1248	ND	0.98	0.20	1.00	
Aroclor-1254	ND	0.98	0.22	1.00	
Aroclor-1260	ND	0.98	0.26	1.00	
Aroclor-1262	ND	0.98	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	75	50-135	
2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-01-1511-6-I**	**01/23/15 03:01**	**Aqueous**	**GC 31**	**01/24/15**	**02/05/15 18:27**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	50-135	
2,4,5,6-Tetrachloro-m-Xylene	103	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-01-1511-7-I**	**01/23/15 03:21**	**Aqueous**	**GC 31**	**01/24/15**	**02/05/15 18:46**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.97	0.29	1.00	
Aroclor-1221	ND	0.97	0.27	1.00	
Aroclor-1232	ND	0.97	0.24	1.00	
Aroclor-1242	ND	0.97	0.17	1.00	
Aroclor-1248	ND	0.97	0.20	1.00	
Aroclor-1254	ND	0.97	0.22	1.00	
Aroclor-1260	ND	0.97	0.26	1.00	
Aroclor-1262	ND	0.97	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	111	50-135	
2,4,5,6-Tetrachloro-m-Xylene	122	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-01-1511-8-I**	**01/23/15 03:03**	**Aqueous**	**GC 31**	**01/24/15**	**02/05/15 19:05**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.96	0.28	1.00	
Aroclor-1221	ND	0.96	0.27	1.00	
Aroclor-1232	ND	0.96	0.24	1.00	
Aroclor-1242	ND	0.96	0.17	1.00	
Aroclor-1248	ND	0.96	0.19	1.00	
Aroclor-1254	ND	0.96	0.22	1.00	
Aroclor-1260	ND	0.96	0.25	1.00	
Aroclor-1262	ND	0.96	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	50-135	
2,4,5,6-Tetrachloro-m-Xylene	90	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-01-1511-9-I**	**01/23/15 03:36**	**Aqueous**	**GC 31**	**01/24/15**	**02/05/15 19:24**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.97	0.29	1.00	
Aroclor-1221	ND	0.97	0.27	1.00	
Aroclor-1232	ND	0.97	0.24	1.00	
Aroclor-1242	ND	0.97	0.17	1.00	
Aroclor-1248	ND	0.97	0.20	1.00	
Aroclor-1254	ND	0.97	0.22	1.00	
Aroclor-1260	ND	0.97	0.26	1.00	
Aroclor-1262	ND	0.97	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	137	50-135	2,7
2,4,5,6-Tetrachloro-m-Xylene	151	50-135	2,7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-01-1511-10-I**	**01/23/15 03:30**	**Aqueous**	**GC 31**	**01/24/15**	**02/05/15 19:43**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.97	0.29	1.00	
Aroclor-1221	ND	0.97	0.27	1.00	
Aroclor-1232	ND	0.97	0.24	1.00	
Aroclor-1242	ND	0.97	0.17	1.00	
Aroclor-1248	ND	0.97	0.20	1.00	
Aroclor-1254	ND	0.97	0.22	1.00	
Aroclor-1260	ND	0.97	0.26	1.00	
Aroclor-1262	ND	0.97	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	82	50-135	
2,4,5,6-Tetrachloro-m-Xylene	87	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-01-1511-11-I**	**01/23/15 03:36**	**Aqueous**	**GC 31**	**01/24/15**	**02/05/15 20:02**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	50-135	
2,4,5,6-Tetrachloro-m-Xylene	101	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-01-1511-12-I**	**01/23/15 03:30**	**Aqueous**	**GC 31**	**01/24/15**	**02/05/15 20:21**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.97	0.29	1.00	
Aroclor-1221	ND	0.97	0.27	1.00	
Aroclor-1232	ND	0.97	0.24	1.00	
Aroclor-1242	ND	0.97	0.17	1.00	
Aroclor-1248	ND	0.97	0.20	1.00	
Aroclor-1254	ND	0.97	0.22	1.00	
Aroclor-1260	ND	0.97	0.26	1.00	
Aroclor-1262	ND	0.97	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	87	50-135	
2,4,5,6-Tetrachloro-m-Xylene	96	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-533-1000**	**N/A**	**Aqueous**	**GC 31**	**01/24/15**	**02/04/15 11:03**	**150124L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	71	50-135	
2,4,5,6-Tetrachloro-m-Xylene	79	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-01-1511-1-I**	**01/22/15 16:28**	**Aqueous**	**GC 26**	**01/26/15**	**02/08/15 15:05**	**150126L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0049	0.0028	1.00	
Bolstar	ND	0.0049	0.0028	1.00	
Chlorpyrifos	ND	0.0049	0.0023	1.00	
Coumaphos	ND	0.0049	0.0024	1.00	
Diazinon	ND	0.0049	0.0028	1.00	
Dichlorvos	ND	0.0049	0.0036	1.00	
Disulfoton	ND	0.0098	0.0025	1.00	
Ethoprop	ND	0.0049	0.0025	1.00	
Fensulfothion	ND	0.0049	0.0028	1.00	
Fenthion	ND	0.0049	0.0026	1.00	
Merphos	ND	0.0049	0.0026	1.00	
Methyl Parathion	ND	0.0049	0.0029	1.00	
Mevinphos	ND	0.0049	0.0027	1.00	
Naled	ND	0.039	0.019	1.00	
Phorate	ND	0.0049	0.0025	1.00	
Ronnel	ND	0.0049	0.0032	1.00	
Stirophos	ND	0.020	0.0086	1.00	
Tokuthion	ND	0.0049	0.0028	1.00	
Trichloronate	ND	0.0049	0.0021	1.00	
Demeton-o/s	ND	0.0049	0.0027	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	113	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-01-1511-2-I**	**01/22/15 16:51**	**Aqueous**	**GC 26**	**01/26/15**	**02/08/15 15:49**	**150126L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0048	0.0027	1.00	
Bolstar	ND	0.0048	0.0027	1.00	
Chlorpyrifos	ND	0.0048	0.0023	1.00	
Coumaphos	ND	0.0048	0.0023	1.00	
Diazinon	ND	0.0048	0.0028	1.00	
Dichlorvos	ND	0.0048	0.0035	1.00	
Disulfoton	ND	0.0096	0.0025	1.00	
Ethoprop	ND	0.0048	0.0024	1.00	
Fensulfothion	ND	0.0048	0.0027	1.00	
Fenthion	ND	0.0048	0.0025	1.00	
Merphos	ND	0.0048	0.0025	1.00	
Methyl Parathion	ND	0.0048	0.0029	1.00	
Mevinphos	ND	0.0048	0.0026	1.00	
Naled	ND	0.038	0.019	1.00	
Phorate	ND	0.0048	0.0024	1.00	
Ronnel	ND	0.0048	0.0031	1.00	
Stirophos	ND	0.019	0.0085	1.00	
Tokuthion	ND	0.0048	0.0027	1.00	
Trichloronate	ND	0.0048	0.0020	1.00	
Demeton-o/s	ND	0.0048	0.0027	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	126	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-01-1511-3-I**	**01/22/15 16:40**	**Aqueous**	**GC 26**	**01/26/15**	**02/08/15 16:33**	**150126L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0049	0.0028	1.00	
Bolstar	ND	0.0049	0.0028	1.00	
Chlorpyrifos	ND	0.0049	0.0023	1.00	
Coumaphos	ND	0.0049	0.0024	1.00	
Diazinon	ND	0.0049	0.0028	1.00	
Dichlorvos	ND	0.0049	0.0035	1.00	
Disulfoton	ND	0.0097	0.0025	1.00	
Ethoprop	ND	0.0049	0.0024	1.00	
Fensulfothion	ND	0.0049	0.0028	1.00	
Fenthion	ND	0.0049	0.0025	1.00	
Merphos	ND	0.0049	0.0025	1.00	
Methyl Parathion	ND	0.0049	0.0029	1.00	
Mevinphos	ND	0.0049	0.0027	1.00	
Naled	ND	0.039	0.019	1.00	
Phorate	ND	0.0049	0.0024	1.00	
Ronnel	ND	0.0049	0.0031	1.00	
Stirophos	ND	0.019	0.0086	1.00	
Tokuthion	ND	0.0049	0.0027	1.00	
Trichloronate	ND	0.0049	0.0020	1.00	
Demeton-o/s	ND	0.0049	0.0027	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	127	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-01-1511-4-I**	**01/22/15 17:03**	**Aqueous**	**GC 26**	**01/26/15**	**02/08/15 17:17**	**150126L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0048	0.0027	1.00	
Bolstar	ND	0.0048	0.0027	1.00	
Chlorpyrifos	ND	0.0048	0.0023	1.00	
Coumaphos	ND	0.0048	0.0023	1.00	
Diazinon	ND	0.0048	0.0028	1.00	
Dichlorvos	ND	0.0048	0.0035	1.00	
Disulfoton	ND	0.0096	0.0025	1.00	
Ethoprop	ND	0.0048	0.0024	1.00	
Fensulfothion	ND	0.0048	0.0027	1.00	
Fenthion	ND	0.0048	0.0025	1.00	
Merphos	ND	0.0048	0.0025	1.00	
Methyl Parathion	ND	0.0048	0.0029	1.00	
Mevinphos	ND	0.0048	0.0026	1.00	
Naled	ND	0.038	0.019	1.00	
Phorate	ND	0.0048	0.0024	1.00	
Ronnel	ND	0.0048	0.0031	1.00	
Stirophos	ND	0.019	0.0085	1.00	
Tokuthion	ND	0.0048	0.0027	1.00	
Trichloronate	ND	0.0048	0.0020	1.00	
Demeton-o/s	ND	0.0048	0.0027	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	118	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-01-1511-5-I**	**01/22/15 16:55**	**Aqueous**	**GC 26**	**01/26/15**	**02/08/15 18:01**	**150126L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0048	0.0027	1.00	
Bolstar	ND	0.0048	0.0027	1.00	
Chlorpyrifos	ND	0.0048	0.0023	1.00	
Coumaphos	ND	0.0048	0.0023	1.00	
Diazinon	ND	0.0048	0.0028	1.00	
Dichlorvos	ND	0.0048	0.0035	1.00	
Disulfoton	ND	0.0096	0.0025	1.00	
Ethoprop	ND	0.0048	0.0024	1.00	
Fensulfothion	ND	0.0048	0.0027	1.00	
Fenthion	ND	0.0048	0.0025	1.00	
Merphos	ND	0.0048	0.0025	1.00	
Methyl Parathion	ND	0.0048	0.0029	1.00	
Mevinphos	ND	0.0048	0.0026	1.00	
Naled	ND	0.038	0.019	1.00	
Phorate	ND	0.0048	0.0024	1.00	
Ronnel	ND	0.0048	0.0031	1.00	
Stirophos	ND	0.019	0.0085	1.00	
Tokuthion	ND	0.0048	0.0027	1.00	
Trichloronate	ND	0.0048	0.0020	1.00	
Demeton-o/s	ND	0.0048	0.0027	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	127	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-01-1511-6-I**	**01/23/15 03:01**	**Aqueous**	**GC 26**	**01/26/15**	**02/08/15 18:46**	**150126L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0028	1.00	
Bolstar	ND	0.0050	0.0028	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.0099	0.0025	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0028	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0029	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0087	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	127	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
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Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-01-1511-7-I**	**01/23/15 03:21**	**Aqueous**	**GC 26**	**01/26/15**	**02/08/15 19:30**	**150126L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0048	0.0027	1.00	
Bolstar	ND	0.0048	0.0027	1.00	
Chlorpyrifos	ND	0.0048	0.0023	1.00	
Coumaphos	ND	0.0048	0.0023	1.00	
Diazinon	ND	0.0048	0.0028	1.00	
Dichlorvos	ND	0.0048	0.0035	1.00	
Disulfoton	ND	0.0096	0.0025	1.00	
Ethoprop	ND	0.0048	0.0024	1.00	
Fensulfothion	ND	0.0048	0.0027	1.00	
Fenthion	ND	0.0048	0.0025	1.00	
Merphos	ND	0.0048	0.0025	1.00	
Methyl Parathion	ND	0.0048	0.0029	1.00	
Mevinphos	ND	0.0048	0.0026	1.00	
Naled	ND	0.038	0.019	1.00	
Phorate	ND	0.0048	0.0024	1.00	
Ronnel	ND	0.0048	0.0031	1.00	
Stirophos	ND	0.019	0.0085	1.00	
Tokuthion	ND	0.0048	0.0027	1.00	
Trichloronate	ND	0.0048	0.0020	1.00	
Demeton-o/s	ND	0.0048	0.0027	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	129	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

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Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-01-1511-8-I**	**01/23/15 03:03**	**Aqueous**	**GC 26**	**01/26/15**	**02/08/15 20:14**	**150126L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	130	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-01-1511-9-I**	**01/23/15 03:36**	**Aqueous**	**GC 26**	**01/26/15**	**02/08/15 20:58**	**150126L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0049	0.0028	1.00	
Bolstar	ND	0.0049	0.0028	1.00	
Chlorpyrifos	ND	0.0049	0.0023	1.00	
Coumaphos	ND	0.0049	0.0024	1.00	
Diazinon	ND	0.0049	0.0028	1.00	
Dichlorvos	ND	0.0049	0.0035	1.00	
Disulfoton	ND	0.0097	0.0025	1.00	
Ethoprop	ND	0.0049	0.0024	1.00	
Fensulfothion	ND	0.0049	0.0028	1.00	
Fenthion	ND	0.0049	0.0025	1.00	
Merphos	ND	0.0049	0.0025	1.00	
Methyl Parathion	ND	0.0049	0.0029	1.00	
Mevinphos	ND	0.0049	0.0027	1.00	
Naled	ND	0.039	0.019	1.00	
Phorate	ND	0.0049	0.0024	1.00	
Ronnel	ND	0.0049	0.0031	1.00	
Stirophos	ND	0.019	0.0086	1.00	
Tokuthion	ND	0.0049	0.0027	1.00	
Trichloronate	ND	0.0049	0.0020	1.00	
Demeton-o/s	ND	0.0049	0.0027	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	127	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

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Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-01-1511-10-I**	**01/23/15 03:30**	**Aqueous**	**GC 26**	**01/26/15**	**02/08/15 21:42**	**150126L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0049	0.0028	1.00	
Bolstar	ND	0.0049	0.0028	1.00	
Chlorpyrifos	ND	0.0049	0.0023	1.00	
Coumaphos	ND	0.0049	0.0024	1.00	
Diazinon	ND	0.0049	0.0028	1.00	
Dichlorvos	ND	0.0049	0.0035	1.00	
Disulfoton	ND	0.0097	0.0025	1.00	
Ethoprop	ND	0.0049	0.0024	1.00	
Fensulfothion	ND	0.0049	0.0028	1.00	
Fenthion	ND	0.0049	0.0025	1.00	
Merphos	ND	0.0049	0.0025	1.00	
Methyl Parathion	ND	0.0049	0.0029	1.00	
Mevinphos	ND	0.0049	0.0027	1.00	
Naled	ND	0.039	0.019	1.00	
Phorate	ND	0.0049	0.0024	1.00	
Ronnel	ND	0.0049	0.0031	1.00	
Stirophos	ND	0.019	0.0086	1.00	
Tokuthion	ND	0.0049	0.0027	1.00	
Trichloronate	ND	0.0049	0.0020	1.00	
Demeton-o/s	ND	0.0049	0.0027	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	128	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-01-1511-11-I**	**01/23/15 03:36**	**Aqueous**	**GC 26**	**01/26/15**	**02/08/15 22:26**	**150126L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0049	0.0028	1.00	
Bolstar	ND	0.0049	0.0028	1.00	
Chlorpyrifos	ND	0.0049	0.0023	1.00	
Coumaphos	ND	0.0049	0.0024	1.00	
Diazinon	ND	0.0049	0.0028	1.00	
Dichlorvos	ND	0.0049	0.0036	1.00	
Disulfoton	ND	0.0098	0.0025	1.00	
Ethoprop	ND	0.0049	0.0025	1.00	
Fensulfothion	ND	0.0049	0.0028	1.00	
Fenthion	ND	0.0049	0.0026	1.00	
Merphos	ND	0.0049	0.0026	1.00	
Methyl Parathion	ND	0.0049	0.0029	1.00	
Mevinphos	ND	0.0049	0.0027	1.00	
Naled	ND	0.039	0.019	1.00	
Phorate	ND	0.0049	0.0025	1.00	
Ronnel	ND	0.0049	0.0032	1.00	
Stirophos	ND	0.020	0.0086	1.00	
Tokuthion	ND	0.0049	0.0028	1.00	
Trichloronate	ND	0.0049	0.0021	1.00	
Demeton-o/s	ND	0.0049	0.0027	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	123	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
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Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-01-1511-12-I**	**01/23/15 03:30**	**Aqueous**	**GC 26**	**01/26/15**	**02/08/15 23:10**	**150126L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0049	0.0028	1.00	
Bolstar	ND	0.0049	0.0028	1.00	
Chlorpyrifos	ND	0.0049	0.0023	1.00	
Coumaphos	ND	0.0049	0.0024	1.00	
Diazinon	ND	0.0049	0.0028	1.00	
Dichlorvos	ND	0.0049	0.0035	1.00	
Disulfoton	ND	0.0097	0.0025	1.00	
Ethoprop	ND	0.0049	0.0024	1.00	
Fensulfothion	ND	0.0049	0.0028	1.00	
Fenthion	ND	0.0049	0.0025	1.00	
Merphos	ND	0.0049	0.0025	1.00	
Methyl Parathion	ND	0.0049	0.0029	1.00	
Mevinphos	ND	0.0049	0.0027	1.00	
Naled	ND	0.039	0.019	1.00	
Phorate	ND	0.0049	0.0024	1.00	
Ronnel	ND	0.0049	0.0031	1.00	
Stirophos	ND	0.019	0.0086	1.00	
Tokuthion	ND	0.0049	0.0027	1.00	
Trichloronate	ND	0.0049	0.0020	1.00	
Demeton-o/s	ND	0.0049	0.0027	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	129	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

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San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-963-83**	**N/A**	**Aqueous**	**GC 26**	**01/26/15**	**02/08/15 14:21**	**150126L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	100	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-01-1511-1-I**	**01/22/15 16:28**	**Aqueous**	**GC 40**	**01/26/15**	**01/29/15 22:12**	**150126L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	66	0-123	

HCS 240 Peak	15-01-1511-2-I	01/22/15 16:51	Aqueous	GC 40	01/26/15	01/29/15 22:35	150126L04

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	63	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-01-1511-3-I**	**01/22/15 16:40**	**Aqueous**	**GC 40**	**01/26/15**	**01/29/15 22:58**	**150126L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	68	0-123	

HCS 260 Peak	15-01-1511-4-I	01/22/15 17:03	Aqueous	GC 40	01/26/15	01/29/15 23:21	150126L04

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	65	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-01-1511-5-I**	**01/22/15 16:55**	**Aqueous**	**GC 40**	**01/26/15**	**01/29/15 23:44**	**150126L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	66	0-123	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-01-1511-6-I**	**01/23/15 03:01**	**Aqueous**	**GC 40**	**01/26/15**	**01/30/15 00:07**	**150126L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	62	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-01-1511-7-I**	**01/23/15 03:21**	**Aqueous**	**GC 40**	**01/26/15**	**01/30/15 00:30**	**150126L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	62	0-123	

HCS 250 Trail	15-01-1511-8-I	01/23/15 03:03	Aqueous	GC 40	01/26/15	01/30/15 00:53	150126L04

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	60	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-01-1511-9-I**	**01/23/15 03:36**	**Aqueous**	**GC 40**	**01/26/15**	**01/30/15 01:16**	**150126L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	61	0-123	

HCS 270 Trail	15-01-1511-10-I	01/23/15 03:30	Aqueous	GC 40	01/26/15	01/30/15 01:39	150126L04

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	63	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-01-1511-11-I**	**01/23/15 03:36**	**Aqueous**	**GC 40**	**01/26/15**	**01/30/15 02:02**	**150126L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	67	0-123	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-01-1511-12-I**	**01/23/15 03:30**	**Aqueous**	**GC 40**	**01/26/15**	**01/30/15 02:48**	**150126L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	64	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-034-634**	**N/A**	**Aqueous**	**GC 40**	**01/26/15**	**01/29/15 19:53**	**150126L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	60	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-01-1511-1-G**	**01/22/15 16:28**	**Aqueous**	**GC/MS CCC**	**01/26/15**	**02/01/15 14:17**	**150126L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 3 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	67	33-120	
2-Fluorophenol	47	24-120	
Nitrobenzene-d5	64	38-120	
p-Terphenyl-d14	73	41-137	
Phenol-d6	31	16-120	
2,4,6-Tribromophenol	86	27-159	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-01-1511-2-G**	**01/22/15 16:51**	**Aqueous**	**GC/MS CCC**	**01/26/15**	**02/01/15 14:35**	**150126L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	01/24/15
6200 UTSA Blvd., Suite 102	Work Order:	15-01-1511
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 6 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	66	33-120	
2-Fluorophenol	49	24-120	
Nitrobenzene-d5	64	38-120	
p-Terphenyl-d14	70	41-137	
Phenol-d6	31	16-120	
2,4,6-Tribromophenol	81	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-01-1511-3-G**	**01/22/15 16:40**	**Aqueous**	**GC/MS CCC**	**01/26/15**	**02/01/15 14:53**	**150126L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 9 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	67	33-120	
2-Fluorophenol	45	24-120	
Nitrobenzene-d5	66	38-120	
p-Terphenyl-d14	78	41-137	
Phenol-d6	30	16-120	
2,4,6-Tribromophenol	92	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-01-1511-4-G**	**01/22/15 17:03**	**Aqueous**	**GC/MS CCC**	**01/26/15**	**02/01/15 15:11**	**150126L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.7	2.7	1.00	
Acenaphthylene	ND	9.7	2.8	1.00	
Aniline	ND	9.7	1.5	1.00	
Anthracene	ND	9.7	2.9	1.00	
Azobenzene	ND	9.7	2.6	1.00	
Benzidine	ND	49	6.3	1.00	
Benzo (a) Anthracene	ND	9.7	4.5	1.00	
Benzo (a) Pyrene	ND	9.7	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.7	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.7	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.7	3.1	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.7	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.7	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.7	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.7	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.7	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.7	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.7	2.3	1.00	
4-Chloroaniline	ND	9.7	1.9	1.00	
2-Chloronaphthalene	ND	9.7	2.7	1.00	
2-Chlorophenol	ND	9.7	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.7	2.6	1.00	
Chrysene	ND	9.7	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.7	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.7	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.7	2.5	1.00	
Dibenzofuran	ND	9.7	2.7	1.00	
1,2-Dichlorobenzene	ND	9.7	3.0	1.00	
1,3-Dichlorobenzene	ND	9.7	3.0	1.00	
1,4-Dichlorobenzene	ND	9.7	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.7	2.7	1.00	
Dimethyl Phthalate	ND	9.7	2.5	1.00	
2,4-Dimethylphenol	ND	9.7	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.7	2.3	1.00	
2,6-Dinitrotoluene	ND	9.7	2.3	1.00	
Fluoranthene	ND	9.7	3.0	1.00	
Fluorene	ND	9.7	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.7	2.8	1.00	
Hexachlorobenzene	ND	9.7	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.7	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.7	2.1	1.00	
Isophorone	ND	9.7	2.5	1.00	
2-Methylnaphthalene	ND	9.7	2.7	1.00	
1-Methylnaphthalene	ND	9.7	2.7	1.00	
2-Methylphenol	ND	9.7	2.0	1.00	
3/4-Methylphenol	ND	9.7	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.7	2.3	1.00	
N-Nitrosodimethylamine	ND	9.7	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.7	2.7	1.00	
Naphthalene	ND	9.7	2.8	1.00	
4-Nitroaniline	ND	9.7	2.1	1.00	
3-Nitroaniline	ND	9.7	2.2	1.00	
2-Nitroaniline	ND	9.7	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.7	1.5	1.00	
2-Nitrophenol	ND	9.7	2.5	1.00	
Pentachlorophenol	ND	9.7	4.5	1.00	
Phenanthrene	ND	9.7	2.8	1.00	
Phenol	ND	9.7	2.0	1.00	
Pyrene	ND	9.7	2.9	1.00	
Pyridine	ND	9.7	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.7	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.7	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 12 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	74	33-120	
2-Fluorophenol	48	24-120	
Nitrobenzene-d5	71	38-120	
p-Terphenyl-d14	78	41-137	
Phenol-d6	33	16-120	
2,4,6-Tribromophenol	85	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-01-1511-5-G**	**01/22/15 16:55**	**Aqueous**	**GC/MS CCC**	**01/26/15**	**02/01/15 15:30**	**150126L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	3.4	9.5	2.4	1.00	J
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 15 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	66	33-120	
2-Fluorophenol	43	24-120	
Nitrobenzene-d5	65	38-120	
p-Terphenyl-d14	71	41-137	
Phenol-d6	29	16-120	
2,4,6-Tribromophenol	80	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-01-1511-6-G**	**01/23/15 03:01**	**Aqueous**	**GC/MS CCC**	**01/26/15**	**02/01/15 15:48**	**150126L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 18 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	63	33-120	
2-Fluorophenol	42	24-120	
Nitrobenzene-d5	62	38-120	
p-Terphenyl-d14	73	41-137	
Phenol-d6	28	16-120	
2,4,6-Tribromophenol	84	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-01-1511-7-G**	**01/23/15 03:21**	**Aqueous**	**GC/MS CCC**	**01/26/15**	**02/01/15 16:06**	**150126L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 21 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	74	33-120	
2-Fluorophenol	53	24-120	
Nitrobenzene-d5	72	38-120	
p-Terphenyl-d14	77	41-137	
Phenol-d6	35	16-120	
2,4,6-Tribromophenol	91	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-01-1511-8-G**	**01/23/15 03:03**	**Aqueous**	**GC/MS CCC**	**01/26/15**	**01/29/15 16:59**	**150126L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.7	2.7	1.00	
Acenaphthylene	ND	9.7	2.8	1.00	
Aniline	ND	9.7	1.5	1.00	
Anthracene	ND	9.7	2.9	1.00	
Azobenzene	ND	9.7	2.6	1.00	
Benzidine	ND	49	6.3	1.00	
Benzo (a) Anthracene	ND	9.7	4.5	1.00	
Benzo (a) Pyrene	ND	9.7	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.7	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.7	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.7	3.1	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.7	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.7	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.7	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.7	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.7	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.7	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.7	2.3	1.00	
4-Chloroaniline	ND	9.7	1.9	1.00	
2-Chloronaphthalene	ND	9.7	2.7	1.00	
2-Chlorophenol	ND	9.7	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.7	2.6	1.00	
Chrysene	ND	9.7	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.7	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.7	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.7	2.5	1.00	
Dibenzofuran	ND	9.7	2.7	1.00	
1,2-Dichlorobenzene	ND	9.7	3.0	1.00	
1,3-Dichlorobenzene	ND	9.7	3.0	1.00	
1,4-Dichlorobenzene	ND	9.7	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.7	2.7	1.00	
Dimethyl Phthalate	ND	9.7	2.5	1.00	
2,4-Dimethylphenol	ND	9.7	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.7	2.3	1.00	
2,6-Dinitrotoluene	ND	9.7	2.3	1.00	
Fluoranthene	ND	9.7	3.0	1.00	
Fluorene	ND	9.7	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.7	2.8	1.00	
Hexachlorobenzene	ND	9.7	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.7	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.7	2.1	1.00	
Isophorone	ND	9.7	2.5	1.00	
2-Methylnaphthalene	ND	9.7	2.7	1.00	
1-Methylnaphthalene	ND	9.7	2.7	1.00	
2-Methylphenol	ND	9.7	2.0	1.00	
3/4-Methylphenol	ND	9.7	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.7	2.3	1.00	
N-Nitrosodimethylamine	ND	9.7	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.7	2.7	1.00	
Naphthalene	ND	9.7	2.8	1.00	
4-Nitroaniline	ND	9.7	2.1	1.00	
3-Nitroaniline	ND	9.7	2.2	1.00	
2-Nitroaniline	ND	9.7	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.7	1.5	1.00	
2-Nitrophenol	ND	9.7	2.5	1.00	
Pentachlorophenol	ND	9.7	4.5	1.00	
Phenanthrene	ND	9.7	2.8	1.00	
Phenol	ND	9.7	2.0	1.00	
Pyrene	ND	9.7	2.9	1.00	
Pyridine	ND	9.7	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.7	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.7	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 24 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	78	33-120	
2-Fluorophenol	58	24-120	
Nitrobenzene-d5	76	38-120	
p-Terphenyl-d14	85	41-137	
Phenol-d6	38	16-120	
2,4,6-Tribromophenol	92	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-01-1511-9-G**	**01/23/15 03:36**	**Aqueous**	**GC/MS CCC**	**01/26/15**	**01/29/15 17:17**	**150126L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.7	2.7	1.00	
Acenaphthylene	ND	9.7	2.8	1.00	
Aniline	ND	9.7	1.5	1.00	
Anthracene	ND	9.7	2.9	1.00	
Azobenzene	ND	9.7	2.6	1.00	
Benzidine	ND	49	6.3	1.00	
Benzo (a) Anthracene	ND	9.7	4.5	1.00	
Benzo (a) Pyrene	ND	9.7	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.7	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.7	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.7	3.1	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.7	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.7	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.7	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.7	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.7	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.7	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.7	2.3	1.00	
4-Chloroaniline	ND	9.7	1.9	1.00	
2-Chloronaphthalene	ND	9.7	2.7	1.00	
2-Chlorophenol	ND	9.7	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.7	2.6	1.00	
Chrysene	ND	9.7	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.7	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.7	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.7	2.5	1.00	
Dibenzofuran	ND	9.7	2.7	1.00	
1,2-Dichlorobenzene	ND	9.7	3.0	1.00	
1,3-Dichlorobenzene	ND	9.7	3.0	1.00	
1,4-Dichlorobenzene	ND	9.7	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.7	2.7	1.00	
Dimethyl Phthalate	ND	9.7	2.5	1.00	
2,4-Dimethylphenol	ND	9.7	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.7	2.3	1.00	
2,6-Dinitrotoluene	ND	9.7	2.3	1.00	
Fluoranthene	ND	9.7	3.0	1.00	
Fluorene	ND	9.7	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.7	2.8	1.00	
Hexachlorobenzene	ND	9.7	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.7	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.7	2.1	1.00	
Isophorone	ND	9.7	2.5	1.00	
2-Methylnaphthalene	ND	9.7	2.7	1.00	
1-Methylnaphthalene	ND	9.7	2.7	1.00	
2-Methylphenol	ND	9.7	2.0	1.00	
3/4-Methylphenol	ND	9.7	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.7	2.3	1.00	
N-Nitrosodimethylamine	ND	9.7	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.7	2.7	1.00	
Naphthalene	ND	9.7	2.8	1.00	
4-Nitroaniline	ND	9.7	2.1	1.00	
3-Nitroaniline	ND	9.7	2.2	1.00	
2-Nitroaniline	ND	9.7	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.7	1.5	1.00	
2-Nitrophenol	ND	9.7	2.5	1.00	
Pentachlorophenol	ND	9.7	4.5	1.00	
Phenanthrene	ND	9.7	2.8	1.00	
Phenol	ND	9.7	2.0	1.00	
Pyrene	ND	9.7	2.9	1.00	
Pyridine	ND	9.7	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.7	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.7	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 27 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	75	33-120	
2-Fluorophenol	57	24-120	
Nitrobenzene-d5	71	38-120	
p-Terphenyl-d14	82	41-137	
Phenol-d6	40	16-120	
2,4,6-Tribromophenol	94	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-01-1511-10-G**	**01/23/15 03:30**	**Aqueous**	**GC/MS CCC**	**01/26/15**	**01/29/15 17:35**	**150126L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	14	4.0	1.00	
Acenaphthylene	ND	14	4.1	1.00	
Aniline	ND	14	2.1	1.00	
Anthracene	ND	14	4.3	1.00	
Azobenzene	ND	14	3.8	1.00	
Benzidine	ND	71	9.3	1.00	
Benzo (a) Anthracene	ND	14	6.7	1.00	
Benzo (a) Pyrene	ND	14	3.5	1.00	
Benzo (b) Fluoranthene	ND	14	3.3	1.00	
Benzo (g,h,i) Perylene	ND	14	3.6	1.00	
Benzo (k) Fluoranthene	ND	14	4.6	1.00	
Benzoic Acid	ND	71	17	1.00	
Benzyl Alcohol	ND	14	3.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	14	3.6	1.00	
Bis(2-Chloroethyl) Ether	ND	36	3.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	14	4.6	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	14	4.5	1.00	
4-Bromophenyl-Phenyl Ether	ND	14	3.9	1.00	
Butyl Benzyl Phthalate	ND	14	3.5	1.00	
4-Chloro-3-Methylphenol	ND	14	3.4	1.00	
4-Chloroaniline	ND	14	2.8	1.00	
2-Chloronaphthalene	ND	14	3.9	1.00	
2-Chlorophenol	ND	14	3.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	14	3.8	1.00	
Chrysene	ND	14	4.1	1.00	
Di-n-Butyl Phthalate	ND	14	4.2	1.00	
Di-n-Octyl Phthalate	ND	14	3.5	1.00	
Dibenz (a,h) Anthracene	ND	14	3.6	1.00	
Dibenzofuran	ND	14	4.0	1.00	
1,2-Dichlorobenzene	ND	14	4.3	1.00	
1,3-Dichlorobenzene	ND	14	4.4	1.00	
1,4-Dichlorobenzene	ND	14	4.1	1.00	
3,3'-Dichlorobenzidine	ND	36	3.7	1.00	
2,4-Dichlorophenol	ND	14	3.6	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	14	4.0	1.00	
Dimethyl Phthalate	ND	14	3.7	1.00	
2,4-Dimethylphenol	ND	14	3.5	1.00	
4,6-Dinitro-2-Methylphenol	ND	71	20	1.00	
2,4-Dinitrophenol	ND	71	19	1.00	
2,4-Dinitrotoluene	ND	14	3.3	1.00	
2,6-Dinitrotoluene	ND	14	3.4	1.00	
Fluoranthene	ND	14	4.4	1.00	
Fluorene	ND	14	3.9	1.00	
Hexachloro-1,3-Butadiene	ND	14	4.1	1.00	
Hexachlorobenzene	ND	14	4.4	1.00	
Hexachlorocyclopentadiene	ND	36	9.9	1.00	
Hexachloroethane	ND	14	4.3	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	14	3.1	1.00	
Isophorone	ND	14	3.6	1.00	
2-Methylnaphthalene	ND	14	4.0	1.00	
1-Methylnaphthalene	ND	14	4.0	1.00	
2-Methylphenol	ND	14	3.0	1.00	
3/4-Methylphenol	ND	14	3.1	1.00	
N-Nitroso-di-n-propylamine	ND	14	3.4	1.00	
N-Nitrosodimethylamine	ND	14	4.6	1.00	
N-Nitrosodiphenylamine	ND	14	3.9	1.00	
Naphthalene	ND	14	4.1	1.00	
4-Nitroaniline	ND	14	3.0	1.00	
3-Nitroaniline	ND	14	3.2	1.00	
2-Nitroaniline	ND	14	3.2	1.00	
Nitrobenzene	ND	36	4.3	1.00	
4-Nitrophenol	ND	14	2.3	1.00	
2-Nitrophenol	ND	14	3.7	1.00	
Pentachlorophenol	ND	14	6.6	1.00	
Phenanthrene	ND	14	4.2	1.00	
Phenol	ND	14	2.9	1.00	
Pyrene	ND	14	4.3	1.00	
Pyridine	ND	14	4.3	1.00	
1,2,4-Trichlorobenzene	ND	14	4.1	1.00	
2,4,6-Trichlorophenol	ND	14	3.6	1.00	
2,4,5-Trichlorophenol	ND	14	3.6	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	63	33-120	
2-Fluorophenol	60	24-120	
Nitrobenzene-d5	69	38-120	
p-Terphenyl-d14	77	41-137	
Phenol-d6	44	16-120	
2,4,6-Tribromophenol	90	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-01-1511-11-G**	**01/23/15 03:36**	**Aqueous**	**GC/MS CCC**	**01/26/15**	**02/01/15 16:24**	**150126L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 33 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	63	33-120	
2-Fluorophenol	47	24-120	
Nitrobenzene-d5	68	38-120	
p-Terphenyl-d14	75	41-137	
Phenol-d6	31	16-120	
2,4,6-Tribromophenol	86	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-01-1511-12-G**	**01/23/15 03:30**	**Aqueous**	**GC/MS CCC**	**01/26/15**	**01/29/15 17:53**	**150126L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 36 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	65	33-120	
2-Fluorophenol	55	24-120	
Nitrobenzene-d5	73	38-120	
p-Terphenyl-d14	78	41-137	
Phenol-d6	38	16-120	
2,4,6-Tribromophenol	92	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-3987**	**N/A**	**Aqueous**	**GC/MS CCC**	**01/26/15**	**01/29/15 16:41**	**150126L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.5	1.00	
Benzo (k) Fluoranthene	ND	10	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.7	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.8	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.5	1.00	
Dibenzofuran	ND	10	2.8	1.00	
1,2-Dichlorobenzene	ND	10	3.0	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	10	2.3	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.1	1.00	
Isophorone	ND	10	2.5	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.8	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.1	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.6	1.00	
Phenanthrene	ND	10	2.9	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.8	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 39 of 39

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	80	33-120	
2-Fluorophenol	62	24-120	
Nitrobenzene-d5	77	38-120	
p-Terphenyl-d14	85	41-137	
Phenol-d6	41	16-120	
2,4,6-Tribromophenol	99	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-01-1511-1-A**	**01/22/15 16:28**	**Aqueous**	**GC/MS O**	**01/24/15**	**01/24/15 23:56**	**150124L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	111	78-126	
1,2-Dichloroethane-d4	105	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-01-1511-2-A**	**01/22/15 16:51**	**Aqueous**	**GC/MS O**	**01/24/15**	**01/25/15 00:23**	**150124L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	110	78-126	
1,2-Dichloroethane-d4	105	75-135	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-01-1511-3-A**	**01/22/15 16:40**	**Aqueous**	**GC/MS O**	**01/24/15**	**01/25/15 00:51**	**150124L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	80-120	
Dibromofluoromethane	112	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-01-1511-4-A**	**01/22/15 17:03**	**Aqueous**	**GC/MS O**	**01/24/15**	**01/25/15 01:19**	**150124L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	112	78-126	
1,2-Dichloroethane-d4	108	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-01-1511-5-A**	**01/22/15 16:55**	**Aqueous**	**GC/MS O**	**01/24/15**	**01/25/15 01:46**	**150124L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	108	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-01-1511-6-A**	**01/23/15 03:01**	**Aqueous**	**GC/MS O**	**01/24/15**	**01/25/15 02:14**	**150124L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	111	78-126	
1,2-Dichloroethane-d4	107	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-01-1511-7-A**	**01/23/15 03:21**	**Aqueous**	**GC/MS O**	**01/24/15**	**01/25/15 02:42**	**150124L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	111	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-01-1511-8-A**	**01/23/15 03:03**	**Aqueous**	**GC/MS O**	**01/24/15**	**01/25/15 03:09**	**150124L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	112	78-126	
1,2-Dichloroethane-d4	107	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-01-1511-9-A**	**01/23/15 03:36**	**Aqueous**	**GC/MS O**	**01/24/15**	**01/25/15 03:37**	**150124L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	112	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-01-1511-10-A**	**01/23/15 03:30**	**Aqueous**	**GC/MS O**	**01/24/15**	**01/25/15 04:04**	**150124L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	112	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	103	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-01-1511-11-A**	**01/23/15 03:36**	**Aqueous**	**GC/MS O**	**01/24/15**	**01/25/15 04:32**	**150124L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	114	78-126	
1,2-Dichloroethane-d4	105	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: EAA 27122			Page 23 of 30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-01-1511-12-A**	**01/23/15 03:30**	**Aqueous**	**GC/MS O**	**01/24/15**	**01/25/15 05:00**	**150124L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	80-120	
Dibromofluoromethane	111	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	103	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB01	**15-01-1511-13-A**	**01/23/15 00:00**	**Aqueous**	**GC/MS O**	**01/30/15**	**01/30/15 16:08**	**150130L010**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	80-120	
Dibromofluoromethane	110	78-126	
1,2-Dichloroethane-d4	113	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-16246**	**N/A**	**Aqueous**	**GC/MS O**	**01/24/15**	**01/24/15 21:10**	**150124L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	109	78-126	
1,2-Dichloroethane-d4	100	75-135	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-16277**	**N/A**	**Aqueous**	**GC/MS O**	**01/30/15**	**01/30/15 13:50**	**150130L010**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	80-120	
Dibromofluoromethane	107	78-126	
1,2-Dichloroethane-d4	113	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 210 Peak	**15-01-1511-1**	**01/22/15 16:28**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.068	0.10	0.025	1.00	J	mg/L	N/A	01/24/15	EPA 300.0
Chloride (24)	1.4	1.0	0.12	1.00		mg/L	N/A	01/24/15	EPA 300.0
Bromide (24)	ND	0.10	0.037	1.00		mg/L	N/A	01/24/15	EPA 300.0
Nitrate (as N) (24)	0.26	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Sulfate (24)	3.3	1.0	0.19	1.00		mg/L	N/A	01/24/15	EPA 300.0
Phosphorus, Total (24)	0.084	0.050	0.020	1.00		mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	58.0	1.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Bicarbonate (as CaCO3) (24)	58.0	1.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/30/15	SM 2320B
Solids, Total Dissolved (24)	165	1.00	0.820	1.00		mg/L	01/27/15	01/27/15	SM 2540 C
Solids, Total Suspended (24)	18	1.0	0.95	1.00		mg/L	01/28/15	01/28/15	SM 2540 D
pH (24)	7.17	0.01	0.01	1.00	BV,BU	pH units	N/A	01/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.56	0.50	0.28	1.00		mg/L	02/06/15	02/06/15	SM 4500 N Org B
Carbon, Total Organic (24)	5.0	0.50	0.24	1.00		mg/L	02/07/15	02/07/15	SM 5310 B
Carbon, Dissolved Organic (24)	5.4	0.50	0.24	1.00		mg/L	01/24/15	01/25/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 240 Peak	**15-01-1511-2**	**01/22/15 16:51**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.24	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Chloride (24)	17	1.0	0.12	1.00		mg/L	N/A	01/24/15	EPA 300.0
Bromide (24)	0.12	0.10	0.037	1.00		mg/L	N/A	01/24/15	EPA 300.0
Nitrate (as N) (24)	1.7	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Sulfate (24)	29	1.0	0.19	1.00		mg/L	N/A	01/24/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	220	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Bicarbonate (as CaCO3) (24)	220	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/30/15	SM 2320B
Solids, Total Dissolved (24)	340	1.00	0.820	1.00		mg/L	01/27/15	01/27/15	SM 2540 C
Solids, Total Suspended (24)	2.8	1.0	0.95	1.00		mg/L	01/28/15	01/28/15	SM 2540 D
pH (24)	7.56	0.01	0.01	1.00	BV,BU	pH units	N/A	01/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	02/06/15	02/06/15	SM 4500 N Org B
Carbon, Total Organic (24)	8.6	0.50	0.24	1.00		mg/L	02/07/15	02/07/15	SM 5310 B
Carbon, Dissolved Organic (24)	5.6	0.50	0.24	1.00		mg/L	01/24/15	01/25/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 250 Peak	**15-01-1511-3**	**01/22/15 16:40**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.21	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Chloride (24)	16	1.0	0.12	1.00		mg/L	N/A	01/24/15	EPA 300.0
Bromide (24)	0.093	0.10	0.037	1.00	J	mg/L	N/A	01/24/15	EPA 300.0
Nitrate (as N) (24)	1.5	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Sulfate (24)	27	1.0	0.19	1.00		mg/L	N/A	01/24/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	204	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Bicarbonate (as CaCO3) (24)	204	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/30/15	SM 2320B
Solids, Total Dissolved (24)	440	1.00	0.820	1.00		mg/L	01/27/15	01/27/15	SM 2540 C
Solids, Total Suspended (24)	3.7	1.0	0.95	1.00		mg/L	01/28/15	01/28/15	SM 2540 D
pH (24)	7.63	0.01	0.01	1.00	BV,BU	pH units	N/A	01/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	02/06/15	02/06/15	SM 4500 N Org B
Carbon, Total Organic (24)	4.7	0.50	0.24	1.00		mg/L	02/07/15	02/07/15	SM 5310 B
Carbon, Dissolved Organic (24)	5.6	0.50	0.24	1.00		mg/L	01/24/15	01/25/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 260 Peak	**15-01-1511-4**	**01/22/15 17:03**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.20	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Chloride (24)	9.4	1.0	0.12	1.00		mg/L	N/A	01/24/15	EPA 300.0
Bromide (24)	0.062	0.10	0.037	1.00	J	mg/L	N/A	01/24/15	EPA 300.0
Nitrate (as N) (24)	0.94	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Sulfate (24)	18	1.0	0.19	1.00		mg/L	N/A	01/24/15	EPA 300.0
Phosphorus, Total (24)	0.12	0.050	0.020	1.00		mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	110	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Bicarbonate (as CaCO3) (24)	110	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/30/15	SM 2320B
Solids, Total Dissolved (24)	205	1.00	0.820	1.00		mg/L	01/27/15	01/27/15	SM 2540 C
Solids, Total Suspended (24)	368	1.00	0.950	1.00		mg/L	01/28/15	01/28/15	SM 2540 D
pH (24)	7.65	0.01	0.01	1.00	BV,BU	pH units	N/A	01/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	1.0	0.50	0.28	1.00		mg/L	02/06/15	02/06/15	SM 4500 N Org B
Carbon, Total Organic (24)	11	0.50	0.24	1.00		mg/L	02/07/15	02/07/15	SM 5310 B
Carbon, Dissolved Organic (24)	8.8	0.50	0.24	1.00		mg/L	01/24/15	01/25/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 270 Peak	**15-01-1511-5**	**01/22/15 16:55**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.19	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Chloride (24)	11	1.0	0.12	1.00		mg/L	N/A	01/24/15	EPA 300.0
Bromide (24)	0.078	0.10	0.037	1.00	J	mg/L	N/A	01/24/15	EPA 300.0
Nitrate (as N) (24)	0.98	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Sulfate (24)	22	1.0	0.19	1.00		mg/L	N/A	01/24/15	EPA 300.0
Phosphorus, Total (24)	0.12	0.050	0.020	1.00		mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	122	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Bicarbonate (as CaCO3) (24)	122	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/30/15	SM 2320B
Solids, Total Dissolved (24)	265	1.00	0.820	1.00		mg/L	01/27/15	01/27/15	SM 2540 C
Solids, Total Suspended (24)	409	1.00	0.950	1.00		mg/L	01/28/15	01/28/15	SM 2540 D
pH (24)	7.70	0.01	0.01	1.00	BV,BU	pH units	N/A	01/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	1.5	0.50	0.28	1.00		mg/L	02/06/15	02/06/15	SM 4500 N Org B
Carbon, Total Organic (24)	14	2.5	1.2	5.00		mg/L	02/07/15	02/07/15	SM 5310 B
Carbon, Dissolved Organic (24)	10	2.5	1.2	5.00		mg/L	01/24/15	01/25/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 210 Trail	**15-01-1511-6**	**01/23/15 03:01**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.067	0.10	0.025	1.00	J	mg/L	N/A	01/24/15	EPA 300.0
Chloride (24)	1.8	1.0	0.12	1.00		mg/L	N/A	01/24/15	EPA 300.0
Bromide (24)	ND	0.10	0.037	1.00		mg/L	N/A	01/24/15	EPA 300.0
Nitrate (as N) (24)	0.21	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Sulfate (24)	3.9	1.0	0.19	1.00		mg/L	N/A	01/24/15	EPA 300.0
Phosphorus, Total (24)	0.13	0.050	0.020	1.00		mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	71.0	1.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Bicarbonate (as CaCO3) (24)	71.0	1.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/30/15	SM 2320B
Solids, Total Dissolved (24)	325	1.00	0.820	1.00		mg/L	01/27/15	01/27/15	SM 2540 C
Solids, Total Suspended (24)	39	1.0	0.95	1.00		mg/L	01/28/15	01/28/15	SM 2540 D
pH (24)	7.76	0.01	0.01	1.00	BV,BU	pH units	N/A	01/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	1.8	0.50	0.28	1.00		mg/L	02/06/15	02/06/15	SM 4500 N Org B
Carbon, Total Organic (24)	17	0.50	0.24	1.00		mg/L	02/07/15	02/07/15	SM 5310 B
Carbon, Dissolved Organic (24)	5.9	0.50	0.24	1.00		mg/L	01/24/15	01/25/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 240 Trail	**15-01-1511-7**	**01/23/15 03:21**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.19	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Chloride (24)	18	1.0	0.12	1.00		mg/L	N/A	01/24/15	EPA 300.0
Bromide (24)	0.11	0.10	0.037	1.00		mg/L	N/A	01/24/15	EPA 300.0
Nitrate (as N) (24)	1.8	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Sulfate (24)	29	1.0	0.19	1.00		mg/L	N/A	01/24/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	233	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Bicarbonate (as CaCO3) (24)	233	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/30/15	SM 2320B
Solids, Total Dissolved (24)	380	1.00	0.820	1.00		mg/L	01/27/15	01/27/15	SM 2540 C
Solids, Total Suspended (24)	1.5	1.0	0.95	1.00		mg/L	01/28/15	01/28/15	SM 2540 D
pH (24)	7.64	0.01	0.01	1.00	BV,BU	pH units	N/A	01/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	02/06/15	02/06/15	SM 4500 N Org B
Carbon, Total Organic (24)	5.6	0.50	0.24	1.00		mg/L	02/07/15	02/07/15	SM 5310 B
Carbon, Dissolved Organic (24)	3.7	0.50	0.24	1.00		mg/L	01/24/15	01/25/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 250 Trail	**15-01-1511-8**	**01/23/15 03:03**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.23	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Chloride (24)	18	1.0	0.12	1.00		mg/L	N/A	01/24/15	EPA 300.0
Bromide (24)	0.12	0.10	0.037	1.00		mg/L	N/A	01/24/15	EPA 300.0
Nitrate (as N) (24)	1.7	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Sulfate (24)	30	1.0	0.19	1.00		mg/L	N/A	01/24/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	228	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Bicarbonate (as CaCO3) (24)	228	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/30/15	SM 2320B
Solids, Total Dissolved (24)	500	1.00	0.820	1.00		mg/L	01/27/15	01/27/15	SM 2540 C
Solids, Total Suspended (24)	3.6	1.0	0.95	1.00		mg/L	01/28/15	01/28/15	SM 2540 D
pH (24)	7.86	0.01	0.01	1.00	BV,BU	pH units	N/A	01/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	02/06/15	02/06/15	SM 4500 N Org B
Carbon, Total Organic (24)	4.7	0.50	0.24	1.00		mg/L	02/07/15	02/07/15	SM 5310 B
Carbon, Dissolved Organic (24)	5.1	0.50	0.24	1.00		mg/L	01/24/15	01/25/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 260 Trail	**15-01-1511-9**	**01/23/15 03:36**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.20	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Chloride (24)	12	1.0	0.12	1.00		mg/L	N/A	01/24/15	EPA 300.0
Bromide (24)	0.077	0.10	0.037	1.00	J	mg/L	N/A	01/24/15	EPA 300.0
Nitrate (as N) (24)	1.2	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Sulfate (24)	25	1.0	0.19	1.00		mg/L	N/A	01/24/15	EPA 300.0
Phosphorus, Total (24)	0.11	0.050	0.020	1.00		mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	155	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Bicarbonate (as CaCO3) (24)	155	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/30/15	SM 2320B
Solids, Total Dissolved (24)	280	1.00	0.820	1.00		mg/L	01/27/15	01/27/15	SM 2540 C
Solids, Total Suspended (24)	182	1.00	0.950	1.00		mg/L	01/28/15	01/28/15	SM 2540 D
pH (24)	7.75	0.01	0.01	1.00	BV,BU	pH units	N/A	01/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	1.0	0.50	0.28	1.00		mg/L	02/06/15	02/06/15	SM 4500 N Org B
Carbon, Total Organic (24)	11	0.50	0.24	1.00		mg/L	02/07/15	02/07/15	SM 5310 B
Carbon, Dissolved Organic (24)	4.7	0.50	0.24	1.00		mg/L	01/24/15	01/25/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 270 Trail	**15-01-1511-10**	**01/23/15 03:30**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.20	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Chloride (24)	12	1.0	0.12	1.00		mg/L	N/A	01/24/15	EPA 300.0
Bromide (24)	0.082	0.10	0.037	1.00	J	mg/L	N/A	01/24/15	EPA 300.0
Nitrate (as N) (24)	1.2	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Sulfate (24)	24	1.0	0.19	1.00		mg/L	N/A	01/24/15	EPA 300.0
Phosphorus, Total (24)	0.096	0.050	0.020	1.00		mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	152	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Bicarbonate (as CaCO3) (24)	152	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/30/15	SM 2320B
Solids, Total Dissolved (24)	265	1.00	0.820	1.00		mg/L	01/27/15	01/27/15	SM 2540 C
Solids, Total Suspended (24)	114	1.00	0.950	1.00		mg/L	01/28/15	01/28/15	SM 2540 D
pH (24)	7.78	0.01	0.01	1.00	BV,BU	pH units	N/A	01/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	02/06/15	02/06/15	SM 4500 N Org B
Carbon, Total Organic (24)	7.4	0.50	0.24	1.00		mg/L	02/07/15	02/07/15	SM 5310 B
Carbon, Dissolved Organic (24)	7.0	0.50	0.24	1.00		mg/L	01/24/15	01/25/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
FDHCS 260 Trail	**15-01-1511-11**	**01/23/15 03:36**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.19	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Chloride (24)	12	1.0	0.12	1.00		mg/L	N/A	01/24/15	EPA 300.0
Bromide (24)	0.073	0.10	0.037	1.00	J	mg/L	N/A	01/24/15	EPA 300.0
Nitrate (as N) (24)	1.2	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Sulfate (24)	25	1.0	0.19	1.00		mg/L	N/A	01/24/15	EPA 300.0
Phosphorus, Total (24)	0.10	0.050	0.020	1.00		mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	157	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Bicarbonate (as CaCO3) (24)	157	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/30/15	SM 2320B
Solids, Total Dissolved (24)	400	1.00	0.820	1.00		mg/L	01/27/15	01/27/15	SM 2540 C
Solids, Total Suspended (24)	89	1.0	0.95	1.00		mg/L	01/28/15	01/28/15	SM 2540 D
pH (24)	7.71	0.01	0.01	1.00	BV,BU	pH units	N/A	01/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.77	0.50	0.28	1.00		mg/L	02/06/15	02/06/15	SM 4500 N Org B
Carbon, Total Organic (24)	9.5	0.50	0.24	1.00		mg/L	02/07/15	02/07/15	SM 5310 B
Carbon, Dissolved Organic (24)	5.6	0.50	0.24	1.00		mg/L	01/24/15	01/25/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
FDHCS 270 Trail	**15-01-1511-12**	**01/23/15 03:30**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	0.18	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Chloride (24)	12	1.0	0.12	1.00		mg/L	N/A	01/24/15	EPA 300.0
Bromide (24)	0.089	0.10	0.037	1.00	J	mg/L	N/A	01/24/15	EPA 300.0
Nitrate (as N) (24)	1.2	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Sulfate (24)	23	1.0	0.19	1.00		mg/L	N/A	01/24/15	EPA 300.0
Phosphorus, Total (24)	0.12	0.050	0.020	1.00		mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	154	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Bicarbonate (as CaCO3) (24)	154	5.00	0.848	1.00		mg/L	N/A	01/30/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/30/15	SM 2320B
Solids, Total Dissolved (24)	275	1.00	0.820	1.00		mg/L	01/27/15	01/27/15	SM 2540 C
Solids, Total Suspended (24)	114	1.00	0.950	1.00		mg/L	01/28/15	01/28/15	SM 2540 D
pH (24)	7.77	0.01	0.01	1.00	BV,BU	pH units	N/A	01/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.56	0.50	0.28	1.00		mg/L	02/06/15	02/06/15	SM 4500 N Org B
Carbon, Total Organic (24)	8.2	0.50	0.24	1.00		mg/L	02/07/15	02/07/15	SM 5310 B
Carbon, Dissolved Organic (24)	7.8	0.50	0.24	1.00		mg/L	01/24/15	01/25/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
Method Blank		**N/A**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Fluoride (24)	ND	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Chloride (24)	ND	1.0	0.12	1.00		mg/L	N/A	01/24/15	EPA 300.0
Bromide (24)	ND	0.10	0.037	1.00		mg/L	N/A	01/24/15	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.025	1.00		mg/L	N/A	01/24/15	EPA 300.0
Sulfate (24)	ND	1.0	0.19	1.00		mg/L	N/A	01/24/15	EPA 300.0
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	02/02/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/30/15	SM 2320B
Bicarbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/30/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	01/30/15	SM 2320B
Solids, Total Dissolved (24)	ND	1.0	0.82	1.00		mg/L	01/27/15	01/27/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.95	1.00		mg/L	01/28/15	01/28/15	SM 2540 D
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	02/06/15	02/06/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	02/07/15	02/07/15	SM 5310 B
Carbon, Dissolved Organic (24)	ND	0.50	0.24	1.00		mg/L	01/24/15	01/25/15	SM 5310 B

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: N/A
Method: EPA 300.0

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
FDHCS 270 Trail	**Sample**	**Aqueous**	**IC 15**	**N/A**	**01/24/15 16:47**	**150124S01A**
FDHCS 270 Trail	**Matrix Spike**	**Aqueous**	**IC 15**	**N/A**	**01/24/15 17:37**	**150124S01A**
FDHCS 270 Trail	**Matrix Spike Duplicate**	**Aqueous**	**IC 15**	**N/A**	**01/24/15 17:54**	**150124S01A**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Fluoride	0.1777	250.0	241.3	96	242.4	97	80-120	0	0-20	
Chloride	11.95	5000	5111	102	5114	102	80-120	0	0-20	
Bromide	ND	500.0	513.1	103	513.6	103	80-120	0	0-20	
Nitrate (as N)	1.154	500.0	520.8	104	521.7	104	80-120	0	0-20	
Sulfate	23.48	5000	5083	101	5098	101	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
FDHCS 270 Trail	**Sample**	**Aqueous**	**ACA 1**	**N/A**	**02/02/15 14:36**	**150202SO1A**
FDHCS 270 Trail	**Matrix Spike**	**Aqueous**	**ACA 1**	**N/A**	**02/02/15 14:36**	**150202SO1A**
FDHCS 270 Trail	**Matrix Spike Duplicate**	**Aqueous**	**ACA 1**	**N/A**	**02/02/15 14:36**	**150202SO1A**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.1192	0.2000	0.3152	98	0.3161	98	90-110	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 270 Peak	**Sample**	**Aqueous**	**TOC 8**	**02/07/15**	**02/07/15 20:21**	**F0207TOCS1**
HCS 270 Peak	**Matrix Spike**	**Aqueous**	**TOC 8**	**02/07/15**	**02/07/15 20:21**	**F0207TOCS1**
HCS 270 Peak	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**02/07/15**	**02/07/15 20:21**	**F0207TOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	14.45	50.00	59.00	89	64.50	100	31-145	9	0-23	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 270 Peak	**Sample**	**Aqueous**	**TOC 8**	**01/24/15**	**01/25/15 08:45**	**F0124DOCS1**
HCS 270 Peak	**Matrix Spike**	**Aqueous**	**TOC 8**	**01/24/15**	**01/25/15 08:45**	**F0124DOCS1**
HCS 270 Peak	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**01/24/15**	**01/25/15 08:45**	**F0124DOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	10.45	50.00	60.50	100	58.00	95	31-145	4	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B
Project: EAA 27122			Page 5 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 210 Peak	**Sample**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 17:55**	**150126SA6**
HCS 210 Peak	**Matrix Spike**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 17:57**	**150126SA6**
HCS 210 Peak	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 17:58**	**150126SA6**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Calcium	19.19	0.5000	20.14	4X	20.20	4X	77-113	4X	0-11	Q
Magnesium	2.172	0.5000	2.657	4X	2.674	4X	56-140	4X	0-11	Q
Potassium	1.560	5.000	6.465	98	6.337	96	83-131	2	0-7	
Sodium	1.042	5.000	5.732	94	5.907	97	73-127	3	0-9	
Strontium	0.09780	0.5000	0.6090	102	0.6223	105	81-123	2	0-6	
Silicon	1.065	0.5000	1.494	86	1.491	85	24-180	0	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 240 Peak	**Sample**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/28/15 11:59**	**150126S03**
HCS 240 Peak	**Matrix Spike**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 08:25**	**150126S03**
HCS 240 Peak	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 08:28**	**150126S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.1000	0.09735	97	0.09348	93	85-133	4	0-11	
Arsenic	ND	0.1000	0.09587	96	0.09385	94	73-127	2	0-11	
Barium	0.05252	0.1000	0.1547	102	0.1527	100	74-128	1	0-10	
Beryllium	ND	0.1000	0.09530	95	0.09080	91	56-122	5	0-11	
Cadmium	ND	0.1000	0.09322	93	0.08931	89	84-114	4	0-8	
Chromium	ND	0.1000	0.1030	103	0.1001	100	73-133	3	0-11	
Copper	0.001256	0.1000	0.09476	94	0.09231	91	72-108	3	0-10	
Lead	ND	0.1000	0.1001	100	0.09724	97	79-121	3	0-10	
Nickel	0.001371	0.1000	0.09097	90	0.08788	87	68-122	3	0-10	
Selenium	ND	0.1000	0.09183	92	0.08674	87	59-125	6	0-12	
Silver	ND	0.05000	0.04271	85	0.03964	79	68-128	7	0-14	
Thallium	ND	0.1000	0.09514	95	0.09216	92	73-121	3	0-11	
Zinc	0.01878	0.1000	0.1226	104	0.09249	74	43-145	28	0-39	
Aluminum	ND	0.1000	0.1196	120	0.1191	119	47-161	0	0-24	
Iron	ND	5.100	5.315	104	5.347	105	27-201	1	0-24	
Manganese	0.001311	0.1000	0.09499	94	0.09083	90	72-126	4	0-42	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 7470A Total
Method: EPA 7470A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-1471-1	**Sample**	**Aqueous**	**Mercury 04**	**01/30/15**	**01/30/15 17:25**	**150130S06**
15-01-1471-1	**Matrix Spike**	**Aqueous**	**Mercury 04**	**01/30/15**	**01/30/15 17:03**	**150130S06**
15-01-1471-1	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 04**	**01/30/15**	**01/30/15 17:05**	**150130S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.01002	100	0.01014	101	57-141	1	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-1404-4	**Sample**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**01/31/15 13:33**	**150129S19**
15-01-1404-4	**Matrix Spike**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**01/31/15 13:42**	**150129S19**
15-01-1404-4	**Matrix Spike Duplicate**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**01/31/15 17:15**	**150129S19**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Caffeine	57.25	100.0	176.7	119	171.2	114	70-130	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-1454-1	**Sample**	**Aqueous**	**GC/MS O**	**01/24/15**	**01/24/15 21:38**	**150124S010**
15-01-1454-1	**Matrix Spike**	**Aqueous**	**GC/MS O**	**01/24/15**	**01/24/15 22:05**	**150124S010**
15-01-1454-1	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS O**	**01/24/15**	**01/24/15 22:33**	**150124S010**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	50.55	101	47.70	95	74-122	6	0-21	
Carbon Tetrachloride	ND	50.00	52.34	105	49.68	99	60-144	5	0-21	
Chlorobenzene	ND	50.00	49.27	99	45.96	92	73-120	7	0-22	
1,2-Dibromoethane	ND	50.00	47.18	94	43.74	87	80-122	8	0-20	
1,2-Dichlorobenzene	ND	50.00	43.07	86	40.50	81	70-120	6	0-26	
1,2-Dichloroethane	ND	50.00	50.32	101	46.38	93	64-142	8	0-20	
1,1-Dichloroethene	ND	50.00	47.55	95	46.35	93	52-136	3	0-21	
Ethylbenzene	ND	50.00	52.85	106	49.26	99	77-125	7	0-24	
Toluene	ND	50.00	53.06	106	50.12	100	72-126	6	0-23	
Trichloroethene	ND	50.00	51.45	103	48.98	98	74-128	5	0-22	
Vinyl Chloride	ND	50.00	38.87	78	39.53	79	67-133	2	0-20	
p/m-Xylene	ND	100.0	106.7	107	98.76	99	63-129	8	0-25	
o-Xylene	ND	50.00	52.89	106	48.86	98	62-128	8	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	40.58	81	40.37	81	68-134	1	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-1645-1	**Sample**	**Aqueous**	**GC/MS O**	**01/30/15**	**01/30/15 14:17**	**150130S016**
15-01-1645-1	**Matrix Spike**	**Aqueous**	**GC/MS O**	**01/30/15**	**01/30/15 14:45**	**150130S016**
15-01-1645-1	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS O**	**01/30/15**	**01/30/15 15:13**	**150130S016**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	49.06	98	51.29	103	74-122	4	0-21	
Carbon Tetrachloride	ND	50.00	49.15	98	50.31	101	60-144	2	0-21	
Chlorobenzene	ND	50.00	48.72	97	50.09	100	73-120	3	0-22	
1,2-Dibromoethane	ND	50.00	47.60	95	49.24	98	80-122	3	0-20	
1,2-Dichlorobenzene	ND	50.00	46.84	94	49.27	99	70-120	5	0-26	
1,2-Dichloroethane	ND	50.00	48.00	96	50.12	100	64-142	4	0-20	
1,1-Dichloroethene	2.693	50.00	45.01	85	47.39	89	52-136	5	0-21	
Ethylbenzene	ND	50.00	50.89	102	52.75	105	77-125	4	0-24	
Toluene	ND	50.00	49.22	98	50.41	101	72-126	2	0-23	
Trichloroethene	1.449	50.00	49.02	95	50.25	98	74-128	2	0-22	
Vinyl Chloride	ND	50.00	40.50	81	44.71	89	67-133	10	0-20	
p/m-Xylene	ND	100.0	106.3	106	108.2	108	63-129	2	0-25	
o-Xylene	ND	50.00	53.52	107	55.00	110	62-128	3	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	46.32	93	50.61	101	68-134	9	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3005A Filt.
Method: EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
HCS 240 Peak	**Sample**	**Aqueous**	**ICP/MS 04**	**01/26/15 00:00**	**01/28/15 11:59**	**150126S03**
HCS 240 Peak	**PDS**	**Aqueous**	**ICP/MS 04**	**01/26/15 00:00**	**01/27/15 08:31**	**150126S03**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Antimony	ND	0.1000	0.09422	94	75-125	
Arsenic	ND	0.1000	0.09373	94	75-125	
Barium	0.05252	0.1000	0.1449	92	75-125	
Beryllium	ND	0.1000	0.09330	93	75-125	
Cadmium	ND	0.1000	0.08992	90	75-125	
Chromium	ND	0.1000	0.1011	101	75-125	
Copper	0.001256	0.1000	0.09289	92	75-125	
Lead	ND	0.1000	0.09506	95	75-125	
Nickel	0.001371	0.1000	0.08826	87	75-125	
Selenium	ND	0.1000	0.08392	84	75-125	
Silver	ND	0.05000	0.04708	94	75-125	
Thallium	ND	0.1000	0.09009	90	75-125	
Zinc	0.01878	0.1000	0.1007	82	75-125	
Aluminum	ND	0.1000	0.1196	120	75-125	
Iron	ND	5.100	4.713	92	75-125	
Manganese	0.001311	0.1000	0.08988	89	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HCS 240 Peak	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**01/30/15 16:15**	**F0130ALKD3**
HCS 240 Peak	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**01/30/15 16:15**	**F0130ALKD3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	220.0	220.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HCS 240 Peak	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**01/30/15 16:15**	**F0130HCOD3**
HCS 240 Peak	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**01/30/15 16:15**	**F0130HCOD3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Bicarbonate (as CaCO3)	220.0	220.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

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Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HCS 240 Peak	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**01/30/15 16:15**	**F0130CO3D3**
HCS 240 Peak	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**01/30/15 16:15**	**F0130CO3D3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Carbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HCS 210 Peak	**Sample**	**Aqueous**	**SC 5**	**01/27/15 00:00**	**01/27/15 16:00**	**F0127TDSD1**
HCS 210 Peak	**Sample Duplicate**	**Aqueous**	**SC 5**	**01/27/15 00:00**	**01/27/15 16:00**	**F0127TDSD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	165.0	160.0	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-01-1473-3	**Sample**	**Aqueous**	**N/A**	**01/28/15 00:00**	**01/28/15 16:00**	**F0128TSSD2**
15-01-1473-3	**Sample Duplicate**	**Aqueous**	**N/A**	**01/28/15 00:00**	**01/28/15 16:00**	**F0128TSSD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Suspended	53.60	56.80	6	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

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Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: N/A
Method: SM 4500 H+ B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HCS 210 Peak	**Sample**	**Aqueous**	**PH 1**	**N/A**	**01/24/15 11:57**	**F0124PHD1**
HCS 210 Peak	**Sample Duplicate**	**Aqueous**	**PH 1**	**N/A**	**01/24/15 11:57**	**F0124PHD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	7.170	7.220	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

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Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: N/A
Method: SM 4500 N Org B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
FDHCS 270 Trail	**Sample**	**Aqueous**	**BUR05**	**02/06/15 00:00**	**02/06/15 15:42**	**F0206TKND1**
FDHCS 270 Trail	**Sample Duplicate**	**Aqueous**	**BUR05**	**02/06/15 00:00**	**02/06/15 15:42**	**F0206TKND1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Total Kjeldahl Nitrogen	0.5600	0.6300	12	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	N/A
		Method:	EPA 300.0
Project: EAA 27122			Page 1 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-906-5374	**LCS**	**Aqueous**	**IC 15**	**N/A**	**01/24/15 11:33**	**150124L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Fluoride	2.500	2.482	99	90-110	
Chloride	50.00	50.36	101	90-110	
Bromide	5.000	5.070	101	90-110	
Nitrate (as N)	5.000	5.066	101	90-110	
Sulfate	50.00	50.31	101	90-110	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-739-97	**LCS**	**Aqueous**	**ACA 1**	**N/A**	**02/02/15 14:36**	**150202LO1**
099-12-739-97	**LCSD**	**Aqueous**	**ACA 1**	**N/A**	**02/02/15 14:36**	**150202LO1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.2000	0.1852	93	0.1862	93	90-110	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-859-576	**LCS**	**Aqueous**	**PH1/BUR03**	**N/A**	**01/30/15 16:15**	**F0130ALKB3**
099-15-859-576	**LCSD**	**Aqueous**	**PH1/BUR03**	**N/A**	**01/30/15 16:15**	**F0130ALKB3**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	100.0	98.00	98	98.00	98	80-120	0	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-180-4401	**LCS**	**Aqueous**	**SC 5**	**01/27/15**	**01/27/15 16:00**	**F0127TDSL1**
099-12-180-4401	**LCSD**	**Aqueous**	**SC 5**	**01/27/15**	**01/27/15 16:00**	**F0127TDSL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100.0	95.00	95	90.00	90	80-120	5	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-010-7025	**LCS**	**Aqueous**	**N/A**	**01/28/15**	**01/28/15 16:00**	**F0128TSSL2**
099-09-010-7025	**LCSD**	**Aqueous**	**N/A**	**01/28/15**	**01/28/15 16:00**	**F0128TSSL2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Suspended	100.0	101.0	101	98.00	98	80-120	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-5508	**LCS**	**Aqueous**	**TOC 8**	**02/07/15**	**02/07/15 20:21**	**F0207TOCL1**
099-05-097-5508	**LCSD**	**Aqueous**	**TOC 8**	**02/07/15**	**02/07/15 20:21**	**F0207TOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	10.00	9.910	99	10.50	105	80-120	6	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-115-1398	**LCS**	**Aqueous**	**TOC 8**	**01/24/15**	**01/25/15 08:45**	**F0124DOCL1**
099-05-115-1398	**LCSD**	**Aqueous**	**TOC 8**	**01/24/15**	**01/25/15 08:45**	**F0124DOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	10.00	10.50	105	10.50	105	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B
Project: EAA 27122			Page 8 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-683-1120	**LCS**	**Aqueous**	**ICP 7300**	**01/26/15**	**01/27/15 17:53**	**150126L6FF**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Calcium	0.5000	0.4279	86	80-120	
Magnesium	0.5000	0.4097	82	80-120	
Potassium	5.000	4.428	89	80-120	
Sodium	5.000	4.045	81	80-120	
Strontium	0.5000	0.4624	92	80-120	
Silicon	0.5000	0.2593	52	80-120	X

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: EAA 27122			Page 9 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-693-719	**LCS**	**Aqueous**	**ICP/MS 04**	**01/26/15**	**01/27/15 15:23**	**150126L03F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.1000	0.1029	103	80-120	73-127	
Arsenic	0.1000	0.1052	105	80-120	73-127	
Barium	0.1000	0.09971	100	80-120	73-127	
Beryllium	0.1000	0.1018	102	80-120	73-127	
Cadmium	0.1000	0.1012	101	80-120	73-127	
Chromium	0.1000	0.1053	105	80-120	73-127	
Copper	0.1000	0.09728	97	80-120	73-127	
Lead	0.1000	0.1023	102	80-120	73-127	
Nickel	0.1000	0.1020	102	80-120	73-127	
Selenium	0.1000	0.1022	102	80-120	73-127	
Silver	0.05000	0.05273	105	80-120	73-127	
Thallium	0.1000	0.09673	97	80-120	73-127	
Zinc	0.1000	0.1070	107	80-120	73-127	
Aluminum	0.1000	0.1175	118	80-120	73-127	
Iron	5.100	5.029	99	80-120	73-127	
Manganese	0.1000	0.1022	102	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A
Project: EAA 27122			Page 10 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-763-485	**LCS**	**Aqueous**	**Mercury 04**	**01/30/15**	**01/30/15 16:53**	**150130L06F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.01074	107	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants	Date Received: 01/24/15
6200 UTSA Blvd., Suite 102	Work Order: 15-01-1511
San Antonio, TX 78249-1618	Preparation: EPA 1694
	Method: EPA 1694 (M) Caffeine
Project: EAA 27122	Page 11 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-376-10	**LCS**	**Aqueous**	**LC/TQ 2**	**01/29/15**	**01/31/15 12:55**	**150129L19**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Caffeine	100.0	103.8	104	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8081A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-778	**LCS**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 04:22**	**150124L08A**
099-12-529-778	**LCSD**	**Aqueous**	**GC 51**	**01/24/15**	**02/04/15 04:36**	**150124L08A**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.5324	106	0.5460	109	50-135	36-149	3	0-25	
Gamma-BHC	0.5000	0.5466	109	0.5590	112	50-135	36-149	2	0-25	
Beta-BHC	0.5000	0.4827	97	0.4746	95	50-135	36-149	2	0-25	
Heptachlor	0.5000	0.5339	107	0.5402	108	50-135	36-149	1	0-25	
Delta-BHC	0.5000	0.6051	121	0.6324	126	50-135	36-149	4	0-25	
Aldrin	0.5000	0.4714	94	0.4712	94	50-135	36-149	0	0-25	
Heptachlor Epoxide	0.5000	0.5246	105	0.5276	106	50-135	36-149	1	0-25	
Endosulfan I	0.5000	0.5515	110	0.5555	111	50-135	36-149	1	0-25	
Dieldrin	0.5000	0.5378	108	0.5415	108	50-135	36-149	1	0-25	
4,4'-DDE	0.5000	0.4811	96	0.4794	96	50-135	36-149	0	0-25	
Endrin	0.5000	0.5335	107	0.5371	107	50-135	36-149	1	0-25	
Endrin Aldehyde	0.5000	0.6733	135	0.6103	122	50-135	36-149	10	0-25	
4,4'-DDD	0.5000	0.5057	101	0.5046	101	50-135	36-149	0	0-25	
Endosulfan II	0.5000	0.5349	107	0.5386	108	50-135	36-149	1	0-25	
4,4'-DDT	0.5000	0.5675	114	0.5887	118	50-135	36-149	4	0-25	
Endosulfan Sulfate	0.5000	0.5345	107	0.5392	108	50-135	36-149	1	0-25	
Methoxychlor	0.5000	0.5191	104	0.5246	105	50-135	36-149	1	0-25	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8082

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1000	**LCS**	**Aqueous**	**GC 31**	**01/24/15**	**02/04/15 10:25**	**150124L09**
099-12-533-1000	**LCSD**	**Aqueous**	**GC 31**	**01/24/15**	**02/04/15 10:44**	**150124L09**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	1.741	87	1.763	88	50-135	1	0-25	
Aroclor-1260	2.000	1.654	83	1.659	83	50-135	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8141A

Project: EAA 27122

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-963-83	**LCS**	**Aqueous**	**GC 26**	**01/26/15**	**02/08/15 12:52**	**150126L03**
099-15-963-83	**LCSD**	**Aqueous**	**GC 26**	**01/26/15**	**02/08/15 13:37**	**150126L03**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	0.04000	0.03948	99	0.04305	108	30-130	13-147	9	0-30	
Bolstar	0.04000	0.03654	91	0.03942	99	30-130	13-147	8	0-30	
Chlorpyrifos	0.04000	0.03777	94	0.04094	102	30-130	13-147	8	0-30	
Coumaphos	0.04000	0.03960	99	0.04209	105	30-130	13-147	6	0-30	
Diazinon	0.04000	0.03975	99	0.04272	107	30-130	13-147	7	0-30	
Disulfoton	0.04000	0.03340	84	0.03727	93	30-130	13-147	11	0-30	
Ethoprop	0.04000	0.03892	97	0.04169	104	30-130	13-147	7	0-30	
Fensulfothion	0.04000	0.04046	101	0.04286	107	30-130	13-147	6	0-30	
Fenthion	0.04000	0.03727	93	0.04031	101	30-130	13-147	8	0-30	
Merphos	0.04000	0.04891	122	0.05170	129	30-130	13-147	6	0-30	
Methyl Parathion	0.04000	0.03953	99	0.04278	107	30-130	13-147	8	0-30	
Phorate	0.04000	0.03810	95	0.04160	104	30-130	13-147	9	0-30	
Ronnel	0.04000	0.03858	96	0.04236	106	30-130	13-147	9	0-30	
Stirophos	0.04000	0.03359	84	0.03695	92	30-130	13-147	10	0-30	
Tokuthion	0.04000	0.03651	91	0.03965	99	30-130	13-147	8	0-30	
Trichloronate	0.04000	0.03693	92	0.04050	101	30-130	13-147	9	0-30	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 8151A
Method: EPA 8151A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-034-634	**LCS**	**Aqueous**	**GC 40**	**01/26/15**	**01/29/15 19:07**	**150126L04**
095-01-034-634	**LCSD**	**Aqueous**	**GC 40**	**01/26/15**	**01/29/15 19:30**	**150126L04**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	20.00	13.92	70	12.66	63	30-130	10	0-30	
2,4,5-T	2.000	1.485	74	1.365	68	30-130	8	0-30	
2,4-DB	20.00	13.54	68	12.15	61	30-130	11	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 01/24/15
Work Order: 15-01-1511
Preparation: EPA 3510C
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-3987	**LCS**	**Aqueous**	**GC/MS CCC**	**01/26/15**	**01/29/15 16:05**	**150126L07**
095-01-003-3987	**LCSD**	**Aqueous**	**GC/MS CCC**	**01/26/15**	**01/29/15 16:23**	**150126L07**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	200.0	197.7	99	201.5	101	61-120	51-130	2	0-20	
Acenaphthylene	200.0	201.2	101	203.8	102	55-120	44-131	1	0-20	
Butyl Benzyl Phthalate	200.0	193.7	97	193.1	97	56-122	45-133	0	0-20	
4-Chloro-3-Methylphenol	200.0	175.8	88	177.5	89	52-120	41-131	1	0-20	
2-Chlorophenol	200.0	172.9	86	177.3	89	47-120	35-132	2	0-20	
1,4-Dichlorobenzene	200.0	157.5	79	165.2	83	36-120	22-134	5	0-20	
Dimethyl Phthalate	200.0	198.4	99	201.8	101	60-120	50-130	2	0-20	
2,4-Dinitrotoluene	200.0	195.0	97	199.9	100	61-121	51-131	3	0-20	
Fluorene	200.0	206.3	103	211.0	106	67-120	58-129	2	0-20	
N-Nitroso-di-n-propylamine	200.0	174.5	87	178.5	89	39-123	25-137	2	0-20	
Naphthalene	200.0	171.5	86	175.0	87	54-120	43-131	2	0-20	
4-Nitrophenol	200.0	86.57	43	86.38	43	14-120	0-138	0	0-20	
Pentachlorophenol	200.0	184.2	92	180.8	90	31-127	15-143	2	0-20	
Phenol	200.0	83.93	42	87.00	44	17-120	0-137	4	0-20	
Pyrene	200.0	193.4	97	194.6	97	58-124	47-135	1	0-20	
1,2,4-Trichlorobenzene	200.0	166.5	83	171.9	86	49-120	37-132	3	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 17 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-16246	**LCS**	**Aqueous**	**GC/MS O**	**01/24/15**	**01/24/15 20:14**	**150124L015**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	52.34	105	80-120	73-127	
Carbon Tetrachloride	50.00	51.73	103	67-139	55-151	
Chlorobenzene	50.00	51.74	103	78-120	71-127	
1,2-Dibromoethane	50.00	52.70	105	80-120	73-127	
1,2-Dichlorobenzene	50.00	47.41	95	63-129	52-140	
1,2-Dichloroethane	50.00	54.23	108	70-130	60-140	
1,1-Dichloroethene	50.00	48.20	96	66-126	56-136	
Ethylbenzene	50.00	54.91	110	80-123	73-130	
Toluene	50.00	54.79	110	80-120	73-127	
Trichloroethene	50.00	52.49	105	80-122	73-129	
Vinyl Chloride	50.00	40.45	81	70-130	60-140	
p/m-Xylene	100.0	111.2	111	75-123	67-131	
o-Xylene	50.00	56.03	112	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	50.34	101	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	01/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-01-1511
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 18 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-16277	**LCS**	**Aqueous**	**GC/MS O**	**01/30/15**	**01/30/15 12:54**	**150130L010**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	54.43	109	80-120	73-127	
Carbon Tetrachloride	50.00	52.36	105	67-139	55-151	
Chlorobenzene	50.00	53.66	107	78-120	71-127	
1,2-Dibromoethane	50.00	52.60	105	80-120	73-127	
1,2-Dichlorobenzene	50.00	52.68	105	63-129	52-140	
1,2-Dichloroethane	50.00	53.32	107	70-130	60-140	
1,1-Dichloroethene	50.00	48.58	97	66-126	56-136	
Ethylbenzene	50.00	56.87	114	80-123	73-130	
Toluene	50.00	54.08	108	80-120	73-127	
Trichloroethene	50.00	52.56	105	80-122	73-129	
Vinyl Chloride	50.00	45.58	91	70-130	60-140	
p/m-Xylene	100.0	118.2	118	75-123	67-131	
o-Xylene	50.00	60.23	120	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	48.98	98	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-01-1511 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 1694 (M) Caffeine	EPA 1694	262	LC/TQ 2	1
EPA 300.0	N/A	650	IC 15	1
EPA 365.1	N/A	735	ACA 1	1
EPA 6010B	EPA 3005A Filt.	771	ICP 7300	1
EPA 6020	EPA 3005A Filt.	776	ICP/MS 04	1
EPA 7470A	EPA 7470A Filt.	915	Mercury 04	1
EPA 8081A	EPA 3510C	669	GC 51	1
EPA 8082	EPA 3510C	944	GC 31	1
EPA 8141A	EPA 3510C	949	GC 26	1
EPA 8151A	EPA 8151A	944	GC 40	1
EPA 8260B	EPA 5030C	867	GC/MS O	2
EPA 8270C	EPA 3510C	923	GC/MS CCC	1
SM 2320B	N/A	885	PH1/BUR03	1
SM 2540 C	N/A	810	SC 5	1
SM 2540 D	N/A	689	N/A	1
SM 4500 H+ B	N/A	885	PH 1	1
SM 4500 N Org B	N/A	685	BUR05	1
SM 5310 B	N/A	735	TOC 8	1

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Glossary of Terms and Qualifiers

Work Order: 15-01-1511 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **15-01-1511**

DATE: 1/23/15

PAGE: 2 OF 3

LABORATORY CLIENT: SWCA Environmental Consultants

ADDRESS: 6200 UTSA Blvd. Suite 102

CITY: San Antonio STATE: TX ZIP: 78249-1618

TEL: 210.877.2847 E-MAIL: PPearce@swca.com

CLIENT PROJECT NAME / NUMBER: EAA 27122

P.O. NO.:

PROJECT CONTACT: Philip Pearce

SAMPLER(S): (PRINT) Jennifer Moreland

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 10 Days (standard)

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Samples for EPA 6010B, EPA 6020, and EPA 7470 Metals are field filtered
EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn
Please also analyze each sample for pH.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 6010B (Si, Ca, Mg, K, Na, Sr)	EPA 6020 (See Comments)	EPA 7470A Mercury	EPA 1694 (M) Caffeine	EPA 8081A Organochlorine Pesticides	EPA 8082 PCB Aroclors	EPA 8141A Organophosphorus Pest	EPA 8151A Chlorinated Herbicides	EPA 8270C Semi-Volatile Organics	EPA 8260B Volatile Organics	EPA 300 Anions (F, Cl, Br, NO3, SO4, CO3)	EPA 365.1 Total Phosphorus	SM 2320B Alkalinity: Total, Bicarb, Carb	SM 5310B TOC	SM 5310B DOC	SM 5310B Solids, Total Dissolved	SM 4500 N Org B TKN	EPA 160.2 TSS
1	HCS 210 Peak	1/22/15	16:28	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	HCS 240 Peak	1/22/15	16:51	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	HCS 250 Peak	1/22/15	16:40	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	HCS 260 Peak	1/22/15	17:03	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	HCS 270 Peak	1/22/15	16:55	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 1/23/15	Time: 5:17
Relinquished by: (Signature)	Received by: (Signature/Affiliation) EGA	Date: 1/24/15	Time: 1000
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: 15-01_1511

DATE: 1/23/15

PAGE: 3 OF 3

LABORATORY CLIENT: SWCA Environmental Consultants

ADDRESS: 6200 UTSA Blvd. Suite 102

CITY: San Antonio STATE: TX ZIP: 78249-1618

TEL: 210.877.2847 E-MAIL: PPearce@swca.com

CLIENT PROJECT NAME / NUMBER: EAA 27122

P.O. NO.:

PROJECT CONTACT: Philip Pearce

SAMPLER(S): (PRINT) Jennifer Moreland

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 10 Days (standard)

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Samples for EPA 6010B, EPA 6020, and EPA 7470 Metals are field filtered

EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn

Please also analyze each sample for pH.

TBØ1 is a VOC test blank, it was not labeled TBØ1

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 6010B (Si, Ca, Mg, K, Na, Sr)	EPA 6020 (See Comments)	EPA 7470A Mercury	EPA 1694 (M) Caffeine	EPA 8081A Organochlorine Pesticides	EPA 8082 PCB Aroclors	EPA 8141A Organophosphorus Pest	EPA 8151A Chlorinated Herbicides	EPA 8270C Semi-Volatile Organics	EPA 8260B Volatile Organics	EPA 300 Anions (F, Cl, Br, NO3, SO4, CO3	EPA 365.1 Total Phosphorus	SM 2320B Alkalinity: Total, Bicarb, Carb	SM 5310B TOC	SM 5310B DOC	SM 5310B Solids, Total Dissolved	SM 4500 N Org B TKN	EPA 160.2 TSS
6	HCS 210 Trail	1/23/15	3:01	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	HCS 240 Trail	1/23/15	3:21	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	HCS 250 Trail	1/23/15	3:03	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	HCS 260 Trail	1/23/15	3:36	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	HCS 270 Trail	1/23/15	3:30	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	FDHCS 260 Trail	1/23/15	3:36	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	FDHCS 270 Trail	1/23/15	3:30	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	~~VOC~~ TBØ1	1/23/15		NPW	1	Ø	1	Ø										X								

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 1/23/15	Time: 5:17
Relinquished by: (Signature)	Received by: (Signature/Affiliation) EG	Date: 1/24/15	Time: 1000
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

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ID:SATA (210) 877-2847
NC
TSA BLVD STE 102
TONIO, TX 782491618
STATES US

SHIP DATE: 23JAN15
ACTWGT: 52.2 LB
CAD: /OFFC1522
DIMS: 24x14x13 IN

BILL SENDER

L SCIENCE
40 LINCOLN WAY

ARDEN GROVE CA 92841
95-5494 REF:

DEPT:

FedEx Express

5 of 12
7801 6985 1185
8075 3550 1233 0200

SATURDAY 12:00P
PRIORITY OVERNIGHT

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92841
CA-US SNA

ID:SATA (210) 877-2847
NC
UTSA BLVD STE 102
NTONIO, TX 782491618
D STATES US

SHIP DATE: 23JAN15
ACTWGT: 52.3 LB
CAD: /OFFC1522
DIMS: 24x14x13 IN

BILL SENDER

AL SCIENCE
140 LINCOLN WAY

ARDEN GROVE CA 92841
195-5494 REF:

DEPT:

FedEx Express

7 of 12
7801 6985 1200
8075 3550 1233 0200

SATURDAY 12:00
PRIORITY OVERNIGH

0 APVA

92841
CA-US SNA

ORIGIN ID:SATA (210) 877-2847
SWCA INC
6200 UTSA BLVD STE 102
SAN ANTONIO, TX 782491618
UNITED STATES US

SHIP DATE: 23JAN15
ACTWGT: 54.2 LB
CAD: /OFFC1522
DIMS: 24x14x13 IN

BILL SENDER

TO

CAL SCIENCE
7440 LINCOLN WAY

GARDEN GROVE CA 92841
(714) 895-5494 REF:
INV:
PO: DEPT:

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MPS# 0681 7801 6985 1196
Mstr# 8075 3550 1233 0200

SATURDAY 12:00P
PRIORITY OVERNIGHT

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CA-US SNA

ORIGIN ID:SATA (210) 877-2847
SWCA INC
6200 UTSA BLVD STE 102
SAN ANTONIO, TX 782491618
UNITED STATES US

SHIP DATE: 23JAN15
ACTWGT: 54.5 LB
CAD: /OFFC1522
DIMS: 24x14x13 IN

BILL SENDER

TO

CAL SCIENCE
7440 LINCOLN WAY

GARDEN GROVE CA 92841
(714) 895-5494 REF:
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8 of 12
MPS# 0681 7801 6985 1211
Mstr# 8075 3550 1233 0200

SATURDAY 12:00P
PRIORITY OVERNIGHT

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CA-US SNA

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CA-US SNA

GIN ID:SATA (210) 877-2847
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UTSA BLVD STE 102
ANTONIO, TX 782491618
ED STATES US

SHIP DATE: 23JAN15
ACTWGT: 59.3 LB
CAD: /OFFC1522
DIMS: 24x14x13 IN

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GARDEN GROVE CA 92841
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(714) 895-5494 REF:
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SATURDAY 12:00P
PRIORITY OVERNIGHT

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CA-US SNA

UNITED STATES US

TO

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7440 LINCOLN WAY

GARDEN GROVE CA 92841
(714) 895-5494 REF:
INV:
PO: DEPT:

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11 of 12
MPS# 0681 7801 6985 1244
Mstr# 8075 3550 1233

0200

SATURDAY 12:00P
PRIORITY OVERNIGHT

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Part # 156397-436 AIT2 04/14

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WORK ORDER #: 15-01-☑☑☑☑

SAMPLE RECEIPT FORM

Cooler 1 of 12

CLIENT: SWCA DATE: 01/24/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.1 °C + 0.2 °C (CF) = 3.3 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** SB2

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A **Checked by:** SB2

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** 681

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☐	☑	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☑1AGB ~~☑1AGB**na$_2$**~~ ☑1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☑2 250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☑ 5gal cube ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 141229B **Labeled/Checked by:** 681

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** SB2

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** SB2

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WORK ORDER #: 15-01-1611

SAMPLE RECEIPT FORM

Cooler 2 of 12

CLIENT: SWCA

DATE: 01/24/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.0 °C + 0.2 °C (CF) = 3.2 °C ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: 802

CUSTODY SEALS INTACT:

☒ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 802

☐ Sample ☐_____ ☐ No (Not Intact) ☒ Not Present Checked by: 681

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☒	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☒	☐	☐
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and good condition	☒	☐	☐
Proper containers and sufficient volume for analyses requested	☒	☐	☐
Analyses received within holding time	☒	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☒
Proper preservation noted on COC or sample container	☒	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☒	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☒VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☒1AGB ☐1AGB**na$_2$** ☒1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☒250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☒250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☒5gal cube ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 681

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: 862

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: _____

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WORK ORDER #: 15-01-1516 11

SAMPLE RECEIPT FORM

Cooler 3 of 12

CLIENT: SWCA

DATE: 01/24/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.3 °C + 0.2 °C (CF) = 3.5 °C ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: 802

CUSTODY SEALS INTACT:

☒ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 802

☐ Sample ☐ _____ ☐ No (Not Intact) ☒ Not Present Checked by: 681

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☒	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☒	☐	☐
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and good condition	☒	☐	☐
Proper containers and sufficient volume for analyses requested	☒	☐	☐
Analyses received within holding time	☒	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☒
Proper preservation noted on COC or sample container	☒	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☒	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOAh ☐VOA**na**$_2$ ☐125AGB ☐125AGB**h** ☐125AGB**p** ☑1AGB ☐1AGB**na**$_2$ ☑1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☑250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na**$_2$ ☑5gal cube ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 681

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: 862

Preservative: **h:** HCL **n:** HNO_3 **na**$_2$:$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: 862

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WORK ORDER #: 15-01-1516

SAMPLE RECEIPT FORM

Cooler 4 of 12

CLIENT: SWCA

DATE: 01/24/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.0 °C + 0.2 °C (CF) = 3.2 °C ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: 802

CUSTODY SEALS INTACT:

☒ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 802

☐ Sample ☐ _____ ☐ No (Not Intact) ☒ Not Present Checked by: 681

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☒	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☒	☐	☐
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and good condition	☒	☐	☐
Proper containers and sufficient volume for analyses requested	☒	☐	☐
Analyses received within holding time	☒	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☒
Proper preservation noted on COC or sample container	☒	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☒	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☒VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☒1AGB ☐1AGB**na$_2$** ☒1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☒250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☒250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☒5gal cube ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 681

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: 862

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: 862

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WORK ORDER #: 15-01-1511

SAMPLE RECEIPT FORM

Cooler 5 of 12

CLIENT: SWCA

DATE: 01/24/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.1 °C + 0.2 °C (CF) = 3.3 °C ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 802

CUSTODY SEALS INTACT:

☒ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 802

☐ Sample ☐_____ ☐ No (Not Intact) ☒ Not Present Checked by: 681

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☒	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☒	☐	☐
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and good condition	☒	☐	☐
Proper containers and sufficient volume for analyses requested	☒	☐	☐
Analyses received within holding time	☒	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☒
Proper preservation noted on COC or sample container	☒	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☒	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☒VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☒1AGB ☐1AGB**na$_2$** ☒1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☒250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☒250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☒5gal cube ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 681

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: 862

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: 862

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SAMPLE RECEIPT FORM

Cooler 6 of 12

CLIENT: SWCA

DATE: 01/24/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.4 °C + 0.2 °C (CF) = 3.6 °C ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: 802

CUSTODY SEALS INTACT:

☒ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 802

☐ Sample ☐ _____ ☐ No (Not Intact) ☒ Not Present Checked by: 681

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☒	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☒	☐	☐
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and good condition	☒	☐	☐
Proper containers and sufficient volume for analyses requested	☒	☐	☐
Analyses received within holding time	☒	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☒
Proper preservation noted on COC or sample container	☒	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☒	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOAh ☐VOA**na₂** ☐125AGB ☐125AGBh ☐125AGBp ☑1AGB ☐1AGB**na₂** ☑1AGBs

☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☑250CGBs ☐1PB ☐1PBna ☐500PB

☐250PB ☑250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJ**na₂** ☑5gal cube ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 681

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: 802

Preservative: **h:** HCL **n:** HNO_3 **na₂:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: 802

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WORK ORDER #: 15-01-1611

SAMPLE RECEIPT FORM

Cooler 7 of 12

CLIENT: SWCA

DATE: 01/24/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.1 °C + 0.2 °C (CF) = 3.3 °C ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: 802

CUSTODY SEALS INTACT:

☒ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 802

☐ Sample ☐_____ ☐ No (Not Intact) ☒ Not Present Checked by: 681

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☒	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☒	☐	☐
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and good condition	☒	☐	☐
Proper containers and sufficient volume for analyses requested	☒	☐	☐
Analyses received within holding time	☒	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☒
Proper preservation noted on COC or sample container	☒	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☒	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☒VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☒1AGB ☐1AGB**na$_2$** ☒1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☒250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☒250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☒5gal cube ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 681

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: 802

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: 802

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WORK ORDER #: 15-01-1611

SAMPLE RECEIPT FORM

Cooler 8 of 12

CLIENT: SWCA

DATE: 01/24/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.0 °C + 0.2 °C (CF) = 3.2 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: 802

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 802

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 681

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOAh ☐VOA**na**$_2$ ☐125AGB ☐125AGBh ☐125AGBp ☑1AGB ☐1AGB**na**$_2$ ☑1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☑250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☑250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJ**na**$_2$ ☑5gal cube ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 681

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 802

Preservative: h: HCL n: HNO_3 na$_2$: $Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 802

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WORK ORDER #: 15-01-1516 11

SAMPLE RECEIPT FORM

Cooler 9 of 12

CLIENT: SWCA DATE: 01/24/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.3 °C + 0.2 °C (CF) = 3.5 °C ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: 802

CUSTODY SEALS INTACT:

☒ Cooler ☐ _____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 802

☐ Sample ☐ _____ ☐ No (Not Intact) ☒ Not Present Checked by: 681

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☒	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☒	☐	☐
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and good condition	☒	☐	☐
Proper containers and sufficient volume for analyses requested	☒	☐	☐
Analyses received within holding time	☒	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☒
Proper preservation noted on COC or sample container	☒	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☒	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☒VOAh ☐VOA**na$_2$** ☐125AGB ☐125AGBh ☐125AGBp ☒1AGB ☐1AGB**na$_2$** ☒1AGBs

☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☒250CGBs ☐1PB ☐1PBna ☐500PB

☐250PB ☒250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJ**na$_2$** ☒5gal cube ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 681

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 802

Preservative: h: HCL n: HNO_3 **na$_2$**:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 802

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WORK ORDER #: 15-01-1516 11

SAMPLE RECEIPT FORM

Cooler 10 of 12

CLIENT: SWCA DATE: 01/24/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.1 °C + 0.2 °C (CF) = 3.3 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: 802

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 802

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 681

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOAh ☐VOA**na₂** ☐125AGB ☐125AGBh ☐125AGBp ☑1AGB ☐1AGB**na₂** ☑1AGBs

☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☑250CGBs ☐1PB ☐1PBna ☐500PB

☐250PB ☑250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJ**na₂** ☑5gal cube ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 681

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 802

Preservative: h: HCL n: HNO_3 **na₂**:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: 802

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WORK ORDER #: 15-01-1511

SAMPLE RECEIPT FORM

Cooler 11 of 12

CLIENT: SWCA

DATE: 01/24/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.2 °C + 0.2 °C (CF) = 3.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: 802

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: 802

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 681

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☑1AGB ☐1AGBna_2 ☑1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☑250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☑250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☑5gal cube ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 681

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 802

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** 802

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WORK ORDER #: 15-01-1511

SAMPLE RECEIPT FORM

Cooler 12 of 12

CLIENT: SWCA

DATE: 01/24/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.1 °C + 0.2 °C (CF) = 3.3 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** SB2

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A **Checked by:** SB2

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** 681

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☑1AGB ☐1AGB**na$_2$** ☑1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☑250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☑5gal Cubo ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 681

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** SB2

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** SB2

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eurofins | Calscience

WORK ORDER #: 15-01-1511

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Sample(s) NOT RECEIVED but listed on COC**
- ☐ **Sample(s) received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **Improper preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☑ **Sample label(s) do not match COC** – Note in comments
  - ☑ **Sample ID**
  - ☑ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of Container(s)**
  - ☐ **Analysis**
- ☑ **Sample container(s) compromised** – Note in comments
  - ☐ **Water present in sample container**
  - ☑ **Broken**
- ☐ **Sample container(s) not labeled**
- ☐ **Air sample container(s) compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

(-4) Collection time per label is 17:10.

(-1) labeled as HCS260 Trail Collection date & time matched.

(-11) 1 of 2 250CGB w. H_2SO_4 received broken.

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: 681 01/24/15

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SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 210 LEAD
Sample Number: AA94367
Sample Matrix: Non Potable Water

Collection Date/Time: 5/5/15 22:10
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time exceeded, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94367-A	E. coli	√	SM 9223B-2004	77	MPN/100 mL	H	1	42654	5/6/15	12:58	RSC
AA94367-A	E. Coli Holding Time - IDEXX Colilert		NA	14.80	hours		0.00	42653	5/6/15	12:58	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42654

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 5/11/2015 4:41:09PM as validated by JH

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P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

May 11, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 230 LEAD
Sample Number: AA94368
Sample Matrix: Non Potable Water

Collection Date/Time: 5/5/15 22:20
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time exceeded, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94368-A	E. coli	√	SM 9223B-2004	20000	MPN/100 mL	H	1	42654	5/6/15	12:58	RSC
AA94368-A	E. Coli Holding Time - IDEXX Colilert		NA	14.63	hours		0.00	42653	5/6/15	12:58	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42654

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 231 LEAD
Sample Number: AA94369
Sample Matrix: Non Potable Water

Collection Date/Time: 5/5/15 22:11
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time exceeded, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94369-A	E. coli	√	SM 9223B-2004	870	MPN/100 mL	H	1	42654	5/6/15	12:58	RSC
AA94369-A	E. Coli Holding Time - IDEXX Colilert		NA	14.78	hours		0.00	42653	5/6/15	12:58	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42654

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 5/11/2015 4:41:09PM as validated by JH

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 240 LEAD
Sample Number: AA94370
Sample Matrix: Non Potable Water

Collection Date/Time: 5/5/15 22:49
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time exceeded, per customer proceed. Limited sample volume.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94370-A	E. coli	√	SM 9223B-2004	24000	MPN/100 mL	H	1	42654	5/6/15	12:58	RSC
AA94370-A	E. Coli Holding Time - IDEXX Colilert		NA	14.15	hours		0.00	42653	5/6/15	12:58	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42654

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 5/11/2015 4:41:09PM as validated by JH

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 250 LEAD
Sample Number: AA94371
Sample Matrix: Non Potable Water

Collection Date/Time: 5/5/15 22:27
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time exceeded, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94371-A	E. coli	√	SM 9223B-2004	2400	MPN/100 mL	H	1	42654	5/6/15	12:58	RSC
AA94371-A	E. Coli Holding Time - IDEXX Colilert		NA	14.52	hours		0.00	42653	5/6/15	12:58	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42654

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 5/11/2015 4:41:09PM as validated by JH

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 260 LEAD
Sample Number: AA94372
Sample Matrix: Non Potable Water

Collection Date/Time: 5/5/15 22:46
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time exceeded, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94372-A	E. coli	√	SM 9223B-2004	2400	MPN/100 mL	H	1	42654	5/6/15	12:58	RSC
AA94372-A	E. Coli Holding Time - IDEXX Colilert		NA	14.20	hours		0.00	42653	5/6/15	12:58	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42654

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 5/11/2015 4:41:09PM as validated by JH

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 270 LEAD
Sample Number: AA94373
Sample Matrix: Non Potable Water

Collection Date/Time: 5/5/15 23:06
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time exceeded, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94373-A	E. coli	√	SM 9223B-2004	1400	MPN/100 mL	H	1	42654	5/6/15	12:58	RSC
AA94373-A	E. Coli Holding Time - IDEXX Colilert		NA	13.87	hours		0.00	42653	5/6/15	12:58	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42654

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 5/11/2015 4:41:09PM as validated by JH

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 210 PEAK
Sample Number: AA94374
Sample Matrix: Non Potable Water

Collection Date/Time: 5/5/15 23:24
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time exceeded, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94374-A	E. coli	√	SM 9223B-2004	66	MPN/100 mL	H	1	42654	5/6/15	12:58	RSC
AA94374-A	E. Coli Holding Time - IDEXX Colilert		NA	13.57	hours		0.00	42653	5/6/15	12:58	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42654

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 5/11/2015 4:41:09PM as validated by JH

SAN ANTONIO RIVER AUTHORITY
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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 230 PEAK
Sample Number: AA94375
Sample Matrix: Non Potable Water

Collection Date/Time: 5/5/15 23:35
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time exceeded, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94375-A	E. coli	√	SM 9223B-2004	14000	MPN/100 mL	H	1	42654	5/6/15	12:58	RSC
AA94375-A	E. Coli Holding Time - IDEXX Colilert		NA	13.38	hours		0.00	42653	5/6/15	12:58	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42654

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 5/11/2015 4:41:09PM as validated by JH

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

May 11, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 231 PEAK
Sample Number: AA94376
Sample Matrix: Non Potable Water

Collection Date/Time: 5/5/15 22:11
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time exceeded, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94376-A	E. coli	√	SM 9223B-2004	770	MPN/100 mL	H	1	42656	5/6/15	13:17	RSC
AA94376-A	E. Coli Holding Time - IDEXX Colilert		NA	15.10	hours		0.00	42655	5/6/15	13:17	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
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600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42656

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 240 PEAK
Sample Number: AA94377
Sample Matrix: Non Potable Water

Collection Date/Time: 5/6/15 00:05
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time exceeded, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94377-A	E. coli	√	SM 9223B-2004	290	MPN/100 mL	H	1	42656	5/6/15	13:17	RSC
AA94377-A	E. Coli Holding Time - IDEXX Colilert		NA	13.20	hours		0.00	42655	5/6/15	13:17	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42656

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 250 PEAK
Sample Number: AA94378
Sample Matrix: Non Potable Water

Collection Date/Time: 5/5/15 23:30
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time exceeded, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94378-A	E. coli	√	SM 9223B-2004	2200	MPN/100 mL	H	1	42656	5/6/15	13:17	RSC
AA94378-A	E. Coli Holding Time - IDEXX Colilert		NA	13.78	hours		0.00	42655	5/6/15	13:17	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42656

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

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ANALYTICAL REPORT

May 11, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 260 PEAK
Sample Number: AA94379
Sample Matrix: Non Potable Water

Collection Date/Time: 5/5/15 23:49
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time exceeded, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94379-A	E. coli	√	SM 9223B-2004	2100	MPN/100 mL	H	1	42656	5/6/15	13:17	RSC
AA94379-A	E. Coli Holding Time - IDEXX Colilert		NA	13.47	hours		0.00	42655	5/6/15	13:17	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42656

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 270 PEAK
Sample Number: AA94380
Sample Matrix: Non Potable Water

Collection Date/Time: 5/6/15 00:06
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time exceeded, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94380-A	E. coli	√	SM 9223B-2004	5800	MPN/100 mL	H	1	42656	5/6/15	13:17	RSC
AA94380-A	E. Coli Holding Time - IDEXX Colilert		NA	13.18	hours		0.00	42655	5/6/15	13:17	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42656

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 210 TRAIL
Sample Number: AA94381
Sample Matrix: Non Potable Water

Collection Date/Time: 5/6/15 01:30
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time exceeded, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94381-A	E. coli	√	SM 9223B-2004	270	MPN/100 mL	H	1	42656	5/6/15	13:17	RSC
AA94381-A	E. Coli Holding Time - IDEXX Colilert		NA	11.78	hours		0.00	42655	5/6/15	13:17	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42656

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: FDHSM 210 TRAIL
Sample Number: AA94382
Sample Matrix: Non Potable Water

Collection Date/Time: 5/6/15 01:30
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Hold time exceeded, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94382-A	E. coli	√	SM 9223B-2004	330	MPN/100 mL	H	1	42656	5/6/15	13:17	RSC
AA94382-A	E. Coli Holding Time - IDEXX Colilert		NA	11.78	hours		0.00	42655	5/6/15	13:17	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42656

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 230 TRAIL
Sample Number: AA94383
Sample Matrix: Non Potable Water

Collection Date/Time: 5/6/15 02:15
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Analysis Comments: **AA94383-A** E. coli
Customer submitted samples with a very limited hold time. Analyst set up samples for analysis as soon as possible. Customer requested the continuation of the analysis.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94383-A	E. coli	√	SM 9223B-2004	5200	MPN/100 mL	H*	1	42656	5/6/15	13:17	RSC
AA94383-A	E. Coli Holding Time - IDEXX Colilert		NA	11.03	hours		0.00	42655	5/6/15	13:17	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42656

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: FDHHSM 230 TRAIL
Sample Number: AA94384
Sample Matrix: Non Potable Water

Collection Date/Time: 5/6/15 02:15
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Analysis Comments: **AA94384-A** E. coli
Customer submitted samples with a very limited hold time. Analyst set up samples for analysis as soon as possible. Customer requested the continuation of the analysis.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94384-A	E. coli	√	SM 9223B-2004	4600	MPN/100 mL	H*	1	42656	5/6/15	13:17	RSC
AA94384-A	E. Coli Holding Time - IDEXX Colilert		NA	11.03	hours		0.00	42655	5/6/15	13:17	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42656

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

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ANALYTICAL REPORT

May 11, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 231 TRAIL
Sample Number: AA94385
Sample Matrix: Non Potable Water

Collection Date/Time: 5/6/15 02:40
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Analysis Comments: **AA94385-A** E. coli
Customer submitted samples with a very limited hold time. Analyst set up samples for analysis as soon as possible. Customer requested the continuation of the analysis.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94385-A	E. coli	√	SM 9223B-2004	280	MPN/100 mL	H*	1	42658	5/6/15	13:34	RSC
AA94385-A	E. Coli Holding Time - IDEXX Colilert		NA	10.90	hours		0.00	42657	5/6/15	13:34	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42658

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: FDHHSM 231 TRAIL
Sample Number: AA94386
Sample Matrix: Non Potable Water

Collection Date/Time: 5/6/15 02:40
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Analysis Comments: **AA94386-A** E. coli
Customer submitted samples with a very limited hold time. Analyst set up samples for analysis as soon as possible. Customer requested the continuation of the analysis.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94386-A	E. coli	√	SM 9223B-2004	330	MPN/100 mL	H*	1	42658	5/6/15	13:34	RSC
AA94386-A	E. Coli Holding Time - IDEXX Colilert		NA	10.90	hours		0.00	42657	5/6/15	13:34	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42658

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 240 TRAIL
Sample Number: AA94387
Sample Matrix: Non Potable Water

Collection Date/Time: 5/6/15 03:05
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Analysis Comments: **AA94387-A** E. coli
Customer submitted samples with a very limited hold time. Analyst set up samples for analysis as soon as possible. Customer requested the continuation of the analysis.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94387-A	E. coli	√	SM 9223B-2004	210	MPN/100 mL	H*	1	42658	5/6/15	13:34	RSC
AA94387-A	E. Coli Holding Time - IDEXX Colilert		NA	10.48	hours		0.00	42657	5/6/15	13:34	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42658

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 250 TRAIL
Sample Number: AA94388
Sample Matrix: Non Potable Water

Collection Date/Time: 5/6/15 03:58
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Analysis Comments: **AA94388-A** E. coli
Customer submitted samples with a very limited hold time. Analyst set up samples for analysis as soon as possible. Customer requested the continuation of the analysis.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94388-A	E. coli	√	SM 9223B-2004	2500	MPN/100 mL	H*	1	42658	5/6/15	13:34	RSC
AA94388-A	E. Coli Holding Time - IDEXX Colilert		NA	9.60	hours		0.00	42657	5/6/15	13:34	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42658

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 260 TRAIL
Sample Number: AA94389
Sample Matrix: Non Potable Water

Collection Date/Time: 5/6/15 04:20
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Analysis Comments: **AA94389-A** E. coli
Customer submitted samples with a very limited hold time. Analyst set up samples for analysis as soon as possible. Customer requested the continuation of the analysis.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94389-A	E. coli	√	SM 9223B-2004	1100	MPN/100 mL	H*	1	42658	5/6/15	13:34	RSC
AA94389-A	E. Coli Holding Time - IDEXX Colilert		NA	9.23	hours		0.00	42657	5/6/15	13:34	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42658

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM 270 TRAIL
Sample Number: AA94390
Sample Matrix: Non Potable Water

Collection Date/Time: 5/6/15 04:40
Receipt Date/Time: 5/6/15 09:35

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Analysis Comments: **AA94390-A** E. coli
Customer submitted samples with a very limited hold time. Analyst set up samples for analysis as soon as possible. Customer requested the continuation of the analysis.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA94390-A	E. coli	√	SM 9223B-2004	1700	MPN/100 mL	H*	1	42658	5/6/15	13:34	RSC
AA94390-A	E. Coli Holding Time - IDEXX Colilert		NA	8.90	hours		0.00	42657	5/6/15	13:34	RSC

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-42658

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Jeanette Hernandez
Water Quality Planner / QAO

5/11/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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WORK ORDER NUMBER: 15-05-0402

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: SWCA Environmental Consultants

Client Project Name: EAA 27122

Attention: Philip Pearce
6200 UTSA Blvd.
Suite 102
San Antonio, TX 78249-1618

Approved for release on 06/01/2015 by:
Don Burley
Project Manager

ResultLink

Email your PM

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Contents

Client Project Name: EAA 27122
Work Order Number: 15-05-0402

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Work Order Narrative

Work Order: 15-05-0402 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 05/07/15. They were assigned to Work Order 15-05-0402.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	SWCA Environmental Consultants	Work Order:	15-05-0402
	6200 UTSA Blvd., Suite 102	Project Name:	EAA 27122
	San Antonio, TX 78249-1618	PO Number:	
		Date/Time Received:	05/07/15 10:30
		Number of Containers:	217
Attn:	Philip Pearce		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
HSM 210 Lead	15-05-0402-1	05/05/15 22:10	9	Aqueous
HSM 230 Lead	15-05-0402-2	05/05/15 22:20	9	Aqueous
HSM 231 Lead	15-05-0402-3	05/05/15 22:11	9	Aqueous
HSM 240 Lead	15-05-0402-4	05/05/15 22:49	9	Aqueous
HSM 250 Lead	15-05-0402-5	05/05/15 22:27	9	Aqueous
HSM 260 Lead	15-05-0402-6	05/05/15 22:46	9	Aqueous
HSM 270 Lead	15-05-0402-7	05/05/15 23:06	9	Aqueous
HSM 210 Peak	15-05-0402-8	05/05/15 23:24	9	Aqueous
HSM 230 Peak	15-05-0402-9	05/05/15 23:35	9	Aqueous
HSM 231 Peak	15-05-0402-10	05/05/15 22:11	9	Aqueous
HSM 240 Peak	15-05-0402-11	05/06/15 00:05	9	Aqueous
HSM 250 Peak	15-05-0402-12	05/05/15 23:30	9	Aqueous
HSM 260 Peak	15-05-0402-13	05/05/15 23:49	9	Aqueous
HSM 270 Peak	15-05-0402-14	05/06/15 00:06	9	Aqueous
TB06	15-05-0402-15	05/06/15 10:11	1	Aqueous
HSM 210 Trail	15-05-0402-16	05/06/15 01:30	9	Aqueous
HSM 230 Trail	15-05-0402-17	05/06/15 02:15	9	Aqueous
HSM 231 Trail	15-05-0402-18	05/06/15 02:40	9	Aqueous
HSM 240 Trail	15-05-0402-19	05/06/15 03:05	9	Aqueous
HSM 250 Trail	15-05-0402-20	05/06/15 03:58	9	Aqueous
HSM 260 Trail	15-05-0402-21	05/06/15 04:20	9	Aqueous
HSM 270 Trail	15-05-0402-22	05/06/15 04:40	9	Aqueous
FDHSM 210 Trail	15-05-0402-23	05/06/15 01:30	9	Aqueous
FDHSM 230 Trail	15-05-0402-24	05/06/15 02:15	9	Aqueous
FDHSM 231 Trail	15-05-0402-25	05/06/15 02:40	9	Aqueous

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-05-0402-1-I**	**05/05/15 22:10**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 14:53**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.21	0.10	0.025	1.00	
Chloride	26	1.0	0.12	1.00	
Bromide	0.15	0.10	0.037	1.00	
Nitrate (as N)	0.38	0.10	0.025	1.00	
Sulfate	36	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-05-0402-2-I**	**05/05/15 22:20**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 15:09**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.096	0.10	0.025	1.00	J
Chloride	7.2	1.0	0.12	1.00	
Bromide	ND	0.10	0.037	1.00	
Nitrate (as N)	0.79	0.10	0.025	1.00	
Sulfate	12	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-05-0402-3-I**	**05/05/15 22:11**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 15:26**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.17	0.10	0.025	1.00	
Chloride	16	1.0	0.12	1.00	
Bromide	0.073	0.10	0.037	1.00	J
Nitrate (as N)	1.0	0.10	0.025	1.00	
Sulfate	24	1.0	0.19	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-05-0402-4-I**	**05/05/15 22:49**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 15:43**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.15	0.10	0.025	1.00	
Chloride	11	1.0	0.12	1.00	
Bromide	0.045	0.10	0.037	1.00	J
Nitrate (as N)	0.68	0.10	0.025	1.00	
Sulfate	16	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-05-0402-5-I**	**05/05/15 22:27**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 16:00**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.18	0.10	0.025	1.00	
Chloride	17	1.0	0.12	1.00	
Bromide	0.081	0.10	0.037	1.00	J
Nitrate (as N)	1.0	0.10	0.025	1.00	
Sulfate	25	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-05-0402-6-I**	**05/05/15 22:46**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 16:17**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.18	0.10	0.025	1.00	
Chloride	18	1.0	0.12	1.00	
Bromide	0.091	0.10	0.037	1.00	J
Nitrate (as N)	1.1	0.10	0.025	1.00	
Sulfate	27	1.0	0.19	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-05-0402-7-I**	**05/05/15 23:06**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 16:34**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.17	0.10	0.025	1.00	
Chloride	18	1.0	0.12	1.00	
Bromide	0.092	0.10	0.037	1.00	J
Nitrate (as N)	1.1	0.10	0.025	1.00	
Sulfate	27	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-05-0402-8-I**	**05/05/15 23:24**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 16:50**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.21	0.10	0.025	1.00	
Chloride	26	1.0	0.12	1.00	
Bromide	0.14	0.10	0.037	1.00	
Nitrate (as N)	0.38	0.10	0.025	1.00	
Sulfate	36	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-05-0402-9-I**	**05/05/15 23:35**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 17:59**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.16	0.10	0.025	1.00	
Chloride	17	1.0	0.12	1.00	
Bromide	0.082	0.10	0.037	1.00	J
Nitrate (as N)	1.4	0.10	0.025	1.00	
Sulfate	31	1.0	0.19	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-05-0402-10-I**	**05/05/15 22:11**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 18:16**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.18	0.10	0.025	1.00	
Chloride	18	1.0	0.12	1.00	
Bromide	0.091	0.10	0.037	1.00	J
Nitrate (as N)	1.1	0.10	0.025	1.00	
Sulfate	28	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-05-0402-11-I**	**05/06/15 00:05**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 18:32**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.18	0.10	0.025	1.00	
Chloride	19	1.0	0.12	1.00	
Bromide	0.088	0.10	0.037	1.00	J
Nitrate (as N)	1.1	0.10	0.025	1.00	
Sulfate	28	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Peak	**15-05-0402-12-I**	**05/05/15 23:30**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 18:49**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.22	0.10	0.025	1.00	
Chloride	20	1.0	0.12	1.00	
Bromide	0.11	0.10	0.037	1.00	
Nitrate (as N)	1.0	0.10	0.025	1.00	
Sulfate	29	1.0	0.19	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-05-0402-13-I**	**05/05/15 23:49**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 19:06**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.18	0.10	0.025	1.00	
Chloride	17	1.0	0.12	1.00	
Bromide	0.092	0.10	0.037	1.00	J
Nitrate (as N)	1.1	0.10	0.025	1.00	
Sulfate	25	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-05-0402-14-I**	**05/06/15 00:06**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 19:23**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.18	0.10	0.025	1.00	
Chloride	17	1.0	0.12	1.00	
Bromide	0.073	0.10	0.037	1.00	J
Nitrate (as N)	1.0	0.10	0.025	1.00	
Sulfate	25	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-05-0402-16-I**	**05/06/15 01:30**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 19:40**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.22	0.10	0.025	1.00	
Chloride	26	1.0	0.12	1.00	
Bromide	0.14	0.10	0.037	1.00	
Nitrate (as N)	0.41	0.10	0.025	1.00	
Sulfate	35	1.0	0.19	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-05-0402-17-I**	**05/06/15 02:15**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 19:57**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.16	0.10	0.025	1.00	
Chloride	17	1.0	0.12	1.00	
Bromide	0.076	0.10	0.037	1.00	J
Nitrate (as N)	1.5	0.10	0.025	1.00	
Sulfate	27	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-05-0402-18-I**	**05/06/15 02:40**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 20:14**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.19	0.10	0.025	1.00	
Chloride	19	1.0	0.12	1.00	
Bromide	0.094	0.10	0.037	1.00	J
Nitrate (as N)	1.2	0.10	0.025	1.00	
Sulfate	28	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-05-0402-19-I**	**05/06/15 03:05**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 21:38**	**150507L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.20	0.10	0.025	1.00	
Chloride	19	1.0	0.12	1.00	
Bromide	0.092	0.10	0.037	1.00	J
Nitrate (as N)	1.2	0.10	0.025	1.00	
Sulfate	28	1.0	0.19	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-05-0402-20-I**	**05/06/15 03:58**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 21:55**	**150507L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.19	0.10	0.025	1.00	
Chloride	18	1.0	0.12	1.00	
Bromide	0.089	0.10	0.037	1.00	J
Nitrate (as N)	1.1	0.10	0.025	1.00	
Sulfate	27	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-05-0402-21-I**	**05/06/15 04:20**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 22:12**	**150507L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.17	0.10	0.025	1.00	
Chloride	18	1.0	0.12	1.00	
Bromide	0.097	0.10	0.037	1.00	J
Nitrate (as N)	1.1	0.10	0.025	1.00	
Sulfate	27	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-05-0402-22-I**	**05/06/15 04:40**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 22:29**	**150507L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.18	0.10	0.025	1.00	
Chloride	18	1.0	0.12	1.00	
Bromide	0.099	0.10	0.037	1.00	J
Nitrate (as N)	1.1	0.10	0.025	1.00	
Sulfate	27	1.0	0.19	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-05-0402-23-I**	**05/06/15 01:30**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 22:45**	**150507L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.21	0.10	0.025	1.00	
Chloride	25	1.0	0.12	1.00	
Bromide	0.16	0.10	0.037	1.00	
Nitrate (as N)	0.41	0.10	0.025	1.00	
Sulfate	35	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-05-0402-24-I**	**05/06/15 02:15**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 23:02**	**150507L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.16	0.10	0.025	1.00	
Chloride	17	1.0	0.12	1.00	
Bromide	0.079	0.10	0.037	1.00	J
Nitrate (as N)	1.5	0.10	0.025	1.00	
Sulfate	27	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-05-0402-25-I**	**05/06/15 02:40**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 23:19**	**150507L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.19	0.10	0.025	1.00	
Chloride	19	1.0	0.12	1.00	
Bromide	0.097	0.10	0.037	1.00	J
Nitrate (as N)	1.2	0.10	0.025	1.00	
Sulfate	28	1.0	0.19	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-906-5739**	**N/A**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 11:05**	**150507L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	ND	0.10	0.025	1.00	
Chloride	ND	1.0	0.12	1.00	
Bromide	ND	0.10	0.037	1.00	
Nitrate (as N)	ND	0.10	0.025	1.00	
Sulfate	ND	1.0	0.19	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-906-5725**	**N/A**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 21:04**	**150507L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	ND	0.10	0.025	1.00	
Chloride	ND	1.0	0.12	1.00	
Bromide	ND	0.10	0.037	1.00	
Nitrate (as N)	ND	0.10	0.025	1.00	
Sulfate	ND	1.0	0.19	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-05-0402-1-D**	**05/05/15 22:10**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:16**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	93.1	0.100	0.0118	1.00	
Magnesium	20.6	0.100	0.00336	1.00	
Potassium	2.21	0.500	0.103	1.00	
Sodium	17.3	0.500	0.103	1.00	
Strontium	0.742	0.0300	0.00277	1.00	
Silicon	4.34	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-05-0402-2-D**	**05/05/15 22:20**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:18**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	40.1	0.100	0.0118	1.00	
Magnesium	4.77	0.100	0.00336	1.00	
Potassium	3.24	0.500	0.103	1.00	
Sodium	6.32	0.500	0.103	1.00	
Strontium	0.161	0.0300	0.00277	1.00	
Silicon	2.01	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-05-0402-3-D**	**05/05/15 22:11**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:20**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	83.0	0.100	0.0118	1.00	
Magnesium	15.2	0.100	0.00336	1.00	
Potassium	1.85	0.500	0.103	1.00	
Sodium	12.1	0.500	0.103	1.00	
Strontium	0.507	0.0300	0.00277	1.00	
Silicon	3.91	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-05-0402-4-D**	**05/05/15 22:49**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:21**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	52.2	0.100	0.0118	1.00	
Magnesium	9.34	0.100	0.00336	1.00	
Potassium	2.62	0.500	0.103	1.00	
Sodium	9.39	0.500	0.103	1.00	
Strontium	0.321	0.0300	0.00277	1.00	
Silicon	2.46	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-05-0402-5-D**	**05/05/15 22:27**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:23**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	86.4	0.100	0.0118	1.00	
Magnesium	15.6	0.100	0.00336	1.00	
Potassium	1.67	0.500	0.103	1.00	
Sodium	13.1	0.500	0.103	1.00	
Strontium	0.533	0.0300	0.00277	1.00	
Silicon	3.94	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-05-0402-6-D**	**05/05/15 22:46**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:25**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	92.5	0.100	0.0118	1.00	
Magnesium	17.1	0.100	0.00336	1.00	
Potassium	1.60	0.500	0.103	1.00	
Sodium	13.7	0.500	0.103	1.00	
Strontium	0.578	0.0300	0.00277	1.00	
Silicon	4.26	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-05-0402-7-D**	**05/05/15 23:06**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:31**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	91.3	0.100	0.0118	1.00	
Magnesium	17.1	0.100	0.00336	1.00	
Potassium	2.13	0.500	0.103	1.00	
Sodium	13.1	0.500	0.103	1.00	
Strontium	0.572	0.0300	0.00277	1.00	
Silicon	4.31	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-05-0402-8-D**	**05/05/15 23:24**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:33**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	87.4	0.100	0.0118	1.00	
Magnesium	19.8	0.100	0.00336	1.00	
Potassium	1.71	0.500	0.103	1.00	
Sodium	16.0	0.500	0.103	1.00	
Strontium	0.686	0.0300	0.00277	1.00	
Silicon	4.20	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-05-0402-9-D**	**05/05/15 23:35**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:35**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	85.9	0.100	0.0118	1.00	
Magnesium	10.9	0.100	0.00336	1.00	
Potassium	2.85	0.500	0.103	1.00	
Sodium	13.6	0.500	0.103	1.00	
Strontium	0.380	0.0300	0.00277	1.00	
Silicon	3.91	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-05-0402-10-D**	**05/05/15 22:11**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:36**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	97.6	0.100	0.0118	1.00	
Magnesium	17.8	0.100	0.00336	1.00	
Potassium	1.60	0.500	0.103	1.00	
Sodium	13.8	0.500	0.103	1.00	
Strontium	0.598	0.0300	0.00277	1.00	
Silicon	4.46	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-05-0402-11-D**	**05/06/15 00:05**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:38**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	95.6	0.100	0.0118	1.00	
Magnesium	17.8	0.100	0.00336	1.00	
Potassium	1.86	0.500	0.103	1.00	
Sodium	13.5	0.500	0.103	1.00	
Strontium	0.598	0.0300	0.00277	1.00	
Silicon	4.43	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Peak	**15-05-0402-12-D**	**05/05/15 23:30**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:40**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	90.6	0.100	0.0118	1.00	
Magnesium	16.7	0.100	0.00336	1.00	
Potassium	1.68	0.500	0.103	1.00	
Sodium	15.4	0.500	0.103	1.00	
Strontium	0.574	0.0300	0.00277	1.00	
Silicon	4.28	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-05-0402-13-D**	**05/05/15 23:49**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:42**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	87.5	0.100	0.0118	1.00	
Magnesium	16.4	0.100	0.00336	1.00	
Potassium	2.06	0.500	0.103	1.00	
Sodium	12.9	0.500	0.103	1.00	
Strontium	0.549	0.0300	0.00277	1.00	
Silicon	4.18	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-05-0402-14-D**	**05/06/15 00:06**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:43**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	80.9	0.100	0.0118	1.00	
Magnesium	14.7	0.100	0.00336	1.00	
Potassium	2.10	0.500	0.103	1.00	
Sodium	12.1	0.500	0.103	1.00	
Strontium	0.507	0.0300	0.00277	1.00	
Silicon	3.73	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-05-0402-16-D**	**05/06/15 01:30**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:45**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	90.1	0.100	0.0118	1.00	
Magnesium	20.3	0.100	0.00336	1.00	
Potassium	2.29	0.500	0.103	1.00	
Sodium	16.5	0.500	0.103	1.00	
Strontium	0.723	0.0300	0.00277	1.00	
Silicon	4.45	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-05-0402-17-D**	**05/06/15 02:15**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:47**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	83.8	0.100	0.0118	1.00	
Magnesium	12.1	0.100	0.00336	1.00	
Potassium	2.52	0.500	0.103	1.00	
Sodium	12.4	0.500	0.103	1.00	
Strontium	0.404	0.0300	0.00277	1.00	
Silicon	4.01	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-05-0402-18-D**	**05/06/15 02:40**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:53**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	98.7	0.100	0.0118	1.00	
Magnesium	18.4	0.100	0.00336	1.00	
Potassium	1.53	0.500	0.103	1.00	
Sodium	14.0	0.500	0.103	1.00	
Strontium	0.608	0.0300	0.00277	1.00	
Silicon	4.64	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-05-0402-19-D**	**05/06/15 03:05**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:55**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	90.9	0.100	0.0118	1.00	
Magnesium	17.0	0.100	0.00336	1.00	
Potassium	1.32	0.500	0.103	1.00	
Sodium	13.1	0.500	0.103	1.00	
Strontium	0.565	0.0300	0.00277	1.00	
Silicon	4.22	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-05-0402-20-D**	**05/06/15 03:58**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:57**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	93.9	0.100	0.0118	1.00	
Magnesium	17.1	0.100	0.00336	1.00	
Potassium	1.87	0.500	0.103	1.00	
Sodium	14.1	0.500	0.103	1.00	
Strontium	0.585	0.0300	0.00277	1.00	
Silicon	4.31	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-05-0402-21-D**	**05/06/15 04:20**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:58**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	96.4	0.100	0.0118	1.00	
Magnesium	17.9	0.100	0.00336	1.00	
Potassium	1.68	0.500	0.103	1.00	
Sodium	13.8	0.500	0.103	1.00	
Strontium	0.587	0.0300	0.00277	1.00	
Silicon	4.50	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-05-0402-22-D**	**05/06/15 04:40**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 22:00**	**150507LA6A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	93.1	0.100	0.0118	1.00	
Magnesium	17.3	0.100	0.00336	1.00	B
Potassium	1.75	0.500	0.103	1.00	
Sodium	13.8	0.500	0.103	1.00	
Strontium	0.569	0.0300	0.00277	1.00	
Silicon	4.41	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-05-0402-23-D**	**05/06/15 01:30**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 22:02**	**150507LA6A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	91.7	0.100	0.0118	1.00	
Magnesium	20.1	0.100	0.00336	1.00	B
Potassium	2.06	0.500	0.103	1.00	
Sodium	16.5	0.500	0.103	1.00	
Strontium	0.715	0.0300	0.00277	1.00	
Silicon	4.41	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-05-0402-24-D**	**05/06/15 02:15**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/08/15 19:05**	**150507LA6A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	86.8	0.100	0.0118	1.00	
Magnesium	12.5	0.100	0.00336	1.00	B
Potassium	2.05	0.500	0.103	1.00	
Sodium	12.9	0.500	0.103	1.00	
Strontium	0.411	0.0300	0.00277	1.00	
Silicon	4.11	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-05-0402-25-D**	**05/06/15 02:40**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 22:05**	**150507LA6A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	97.2	0.100	0.0118	1.00	
Magnesium	18.4	0.100	0.00336	1.00	B
Potassium	1.48	0.500	0.103	1.00	
Sodium	13.5	0.500	0.103	1.00	
Strontium	0.597	0.0300	0.00277	1.00	
Silicon	4.65	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-683-1264**	**N/A**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 20:59**	**150507LA5**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	ND	0.100	0.0118	1.00	
Magnesium	ND	0.100	0.00336	1.00	
Potassium	ND	0.500	0.103	1.00	
Sodium	ND	0.500	0.103	1.00	
Strontium	ND	0.0300	0.00277	1.00	
Silicon	ND	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-683-1265**	**N/A**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:01**	**150507LA6A**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	ND	0.100	0.0118	1.00	
Magnesium	0.00476	0.100	0.00336	1.00	J
Potassium	ND	0.500	0.103	1.00	
Sodium	ND	0.500	0.103	1.00	
Strontium	ND	0.0300	0.00277	1.00	
Silicon	ND	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-05-0402-1-D**	**05/05/15 22:10**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/11/15 21:21**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000130	0.00100	0.0000995	1.00	J
Arsenic	0.00112	0.00100	0.000386	1.00	
Barium	0.0396	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000802	0.00100	0.000140	1.00	J
Lead	0.000112	0.00100	0.0000898	1.00	J
Nickel	0.00206	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0117	0.00500	0.000479	1.00	
Aluminum	0.00539	0.0500	0.00331	1.00	J
Iron	0.0556	0.0500	0.00926	1.00	
Manganese	0.0150	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-05-0402-2-D**	**05/05/15 22:20**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/11/15 21:25**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000679	0.00100	0.0000995	1.00	J
Arsenic	0.00192	0.00100	0.000386	1.00	
Barium	0.0230	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.00158	0.00100	0.000402	1.00	
Copper	0.00565	0.00100	0.000140	1.00	
Lead	0.000566	0.00100	0.0000898	1.00	J
Nickel	0.00182	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0540	0.00500	0.000479	1.00	
Aluminum	0.102	0.0500	0.00331	1.00	
Iron	0.151	0.0500	0.00926	1.00	
Manganese	0.0132	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-05-0402-3-D**	**05/05/15 22:11**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/11/15 22:17**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000297	0.00100	0.0000995	1.00	J
Arsenic	0.000935	0.00100	0.000386	1.00	J
Barium	0.0355	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000550	0.00100	0.000402	1.00	J
Copper	0.00284	0.00100	0.000140	1.00	
Lead	0.000276	0.00100	0.0000898	1.00	J
Nickel	0.00202	0.00100	0.000132	1.00	
Selenium	0.000445	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0248	0.00500	0.000479	1.00	
Aluminum	0.0298	0.0500	0.00331	1.00	J
Iron	0.0846	0.0500	0.00926	1.00	
Manganese	0.00472	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-05-0402-4-D**	**05/05/15 22:49**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/11/15 22:21**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000745	0.00100	0.0000995	1.00	J
Arsenic	0.00120	0.00100	0.000386	1.00	
Barium	0.0290	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.00123	0.00100	0.000402	1.00	
Copper	0.00355	0.00100	0.000140	1.00	
Lead	0.000370	0.00100	0.0000898	1.00	J
Nickel	0.00181	0.00100	0.000132	1.00	
Selenium	0.000229	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0240	0.00500	0.000479	1.00	
Aluminum	0.0156	0.0500	0.00331	1.00	J
Iron	0.0937	0.0500	0.00926	1.00	
Manganese	0.0175	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-05-0402-5-D**	**05/05/15 22:27**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/11/15 22:25**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000288	0.00100	0.0000995	1.00	J
Arsenic	0.000936	0.00100	0.000386	1.00	J
Barium	0.0398	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000411	0.00100	0.000402	1.00	J
Copper	0.00265	0.00100	0.000140	1.00	
Lead	0.000148	0.00100	0.0000898	1.00	J
Nickel	0.00267	0.00100	0.000132	1.00	
Selenium	0.000335	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0159	0.00500	0.000479	1.00	
Aluminum	0.0113	0.0500	0.00331	1.00	J
Iron	0.0880	0.0500	0.00926	1.00	
Manganese	0.00595	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-05-0402-6-D**	**05/05/15 22:46**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/11/15 22:29**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000147	0.00100	0.0000995	1.00	J
Arsenic	0.000899	0.00100	0.000386	1.00	J
Barium	0.0415	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00207	0.00100	0.000140	1.00	
Lead	0.000159	0.00100	0.0000898	1.00	J
Nickel	0.00256	0.00100	0.000132	1.00	
Selenium	0.000377	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0159	0.00500	0.000479	1.00	
Aluminum	0.00800	0.0500	0.00331	1.00	J
Iron	0.0754	0.0500	0.00926	1.00	
Manganese	0.00445	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-05-0402-7-D**	**05/05/15 23:06**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/11/15 22:33**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000147	0.00100	0.0000995	1.00	J
Arsenic	0.000616	0.00100	0.000386	1.00	J
Barium	0.0405	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00148	0.00100	0.000140	1.00	
Lead	0.000122	0.00100	0.0000898	1.00	J
Nickel	0.00254	0.00100	0.000132	1.00	
Selenium	0.000395	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0158	0.00500	0.000479	1.00	
Aluminum	0.00784	0.0500	0.00331	1.00	J
Iron	0.0708	0.0500	0.00926	1.00	
Manganese	0.00432	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-05-0402-8-D**	**05/05/15 23:24**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/11/15 22:37**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000112	0.00100	0.0000995	1.00	J
Arsenic	0.00116	0.00100	0.000386	1.00	
Barium	0.0381	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000793	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00219	0.00100	0.000132	1.00	
Selenium	0.000250	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00991	0.00500	0.000479	1.00	
Aluminum	0.00555	0.0500	0.00331	1.00	J
Iron	0.0707	0.0500	0.00926	1.00	
Manganese	0.0154	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-05-0402-9-D**	**05/05/15 23:35**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/11/15 22:41**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000457	0.00100	0.0000995	1.00	J
Arsenic	0.00128	0.00100	0.000386	1.00	
Barium	0.0403	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000721	0.00100	0.000402	1.00	J
Copper	0.00366	0.00100	0.000140	1.00	
Lead	0.000162	0.00100	0.0000898	1.00	J
Nickel	0.00238	0.00100	0.000132	1.00	
Selenium	0.000370	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0249	0.00500	0.000479	1.00	
Aluminum	0.0124	0.0500	0.00331	1.00	J
Iron	0.148	0.0500	0.00926	1.00	
Manganese	0.0114	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-05-0402-10-D**	**05/05/15 22:11**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/11/15 22:45**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000176	0.00100	0.0000995	1.00	J
Arsenic	0.00128	0.00100	0.000386	1.00	
Barium	0.0408	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00131	0.00100	0.000140	1.00	
Lead	0.000128	0.00100	0.0000898	1.00	J
Nickel	0.00235	0.00100	0.000132	1.00	
Selenium	0.000324	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0144	0.00500	0.000479	1.00	
Aluminum	0.0108	0.0500	0.00331	1.00	J
Iron	0.109	0.0500	0.00926	1.00	
Manganese	0.00258	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-05-0402-11-D**	**05/06/15 00:05**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/11/15 22:49**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000177	0.00100	0.0000995	1.00	J
Arsenic	0.00153	0.00100	0.000386	1.00	
Barium	0.0409	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00109	0.00100	0.000140	1.00	
Lead	0.000110	0.00100	0.0000898	1.00	J
Nickel	0.00224	0.00100	0.000132	1.00	
Selenium	0.000305	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0179	0.00500	0.000479	1.00	
Aluminum	0.0123	0.0500	0.00331	1.00	J
Iron	0.0821	0.0500	0.00926	1.00	
Manganese	0.00186	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Peak	**15-05-0402-12-D**	**05/05/15 23:30**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/11/15 22:53**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000269	0.00100	0.0000995	1.00	J
Arsenic	0.00121	0.00100	0.000386	1.00	
Barium	0.0433	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00139	0.00100	0.000140	1.00	
Lead	0.000238	0.00100	0.0000898	1.00	J
Nickel	0.00229	0.00100	0.000132	1.00	
Selenium	0.000340	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0345	0.00500	0.000479	1.00	
Aluminum	0.00858	0.0500	0.00331	1.00	J
Iron	0.104	0.0500	0.00926	1.00	
Manganese	0.0109	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-05-0402-13-D**	**05/05/15 23:49**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/12/15 16:59**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000219	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0359	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00118	0.00100	0.000140	1.00	
Lead	0.000164	0.00100	0.0000898	1.00	J
Nickel	0.00237	0.00100	0.000132	1.00	
Selenium	0.000214	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0225	0.00500	0.000479	1.00	
Aluminum	0.0308	0.0500	0.00331	1.00	J
Iron	0.0884	0.0500	0.00926	1.00	
Manganese	0.00520	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-05-0402-14-D**	**05/06/15 00:06**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/12/15 17:03**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000137	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0346	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00159	0.00100	0.000140	1.00	
Lead	0.000119	0.00100	0.0000898	1.00	J
Nickel	0.00214	0.00100	0.000132	1.00	
Selenium	0.000405	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0111	0.00500	0.000479	1.00	
Aluminum	0.00994	0.0500	0.00331	1.00	J
Iron	0.0781	0.0500	0.00926	1.00	
Manganese	0.00467	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-05-0402-16-D**	**05/06/15 01:30**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/12/15 17:07**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0362	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000804	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00239	0.00100	0.000132	1.00	
Selenium	0.000394	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0106	0.00500	0.000479	1.00	
Aluminum	0.00574	0.0500	0.00331	1.00	J
Iron	0.0724	0.0500	0.00926	1.00	
Manganese	0.0184	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-05-0402-17-D**	**05/06/15 02:15**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/12/15 17:11**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000248	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0359	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000560	0.00100	0.000402	1.00	J
Copper	0.00229	0.00100	0.000140	1.00	
Lead	0.000122	0.00100	0.0000898	1.00	J
Nickel	0.00234	0.00100	0.000132	1.00	
Selenium	0.000308	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0308	0.00500	0.000479	1.00	
Aluminum	0.0119	0.0500	0.00331	1.00	J
Iron	0.0929	0.0500	0.00926	1.00	
Manganese	0.00719	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-05-0402-18-D**	**05/06/15 02:40**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/12/15 17:15**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0382	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000402	0.00100	0.000402	1.00	J
Copper	0.000596	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00256	0.00100	0.000132	1.00	
Selenium	0.000386	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0180	0.00500	0.000479	1.00	
Aluminum	0.00844	0.0500	0.00331	1.00	J
Iron	0.0695	0.0500	0.00926	1.00	
Manganese	0.00172	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-05-0402-19-D**	**05/06/15 03:05**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/12/15 17:55**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0356	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000909	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00245	0.00100	0.000132	1.00	
Selenium	0.000279	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00931	0.00500	0.000479	1.00	
Aluminum	0.00686	0.0500	0.00331	1.00	J
Iron	0.0921	0.0500	0.00926	1.00	
Manganese	0.00159	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-05-0402-20-D**	**05/06/15 03:58**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/12/15 17:59**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0373	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000766	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00261	0.00100	0.000132	1.00	
Selenium	0.000369	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0123	0.00500	0.000479	1.00	
Aluminum	0.00740	0.0500	0.00331	1.00	J
Iron	0.0719	0.0500	0.00926	1.00	
Manganese	0.00241	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-05-0402-21-D**	**05/06/15 04:20**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/12/15 18:03**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0380	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00133	0.00100	0.000140	1.00	
Lead	0.000119	0.00100	0.0000898	1.00	J
Nickel	0.00268	0.00100	0.000132	1.00	
Selenium	0.000250	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0168	0.00500	0.000479	1.00	
Aluminum	0.00937	0.0500	0.00331	1.00	J
Iron	0.145	0.0500	0.00926	1.00	
Manganese	0.00383	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-05-0402-22-D**	**05/06/15 04:40**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/12/15 01:00**	**150507LA6F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000132	0.00100	0.0000995	1.00	J
Arsenic	0.000754	0.00100	0.000386	1.00	B,J
Barium	0.0421	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00116	0.00100	0.000140	1.00	
Lead	0.000125	0.00100	0.0000898	1.00	J
Nickel	0.00234	0.00100	0.000132	1.00	
Selenium	0.000295	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0214	0.00500	0.000479	1.00	
Aluminum	0.00632	0.0500	0.00331	1.00	J
Iron	0.0778	0.0500	0.00926	1.00	
Manganese	0.00423	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-05-0402-23-D**	**05/06/15 01:30**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/12/15 00:48**	**150507LA6F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	0.00124	0.00100	0.000386	1.00	B
Barium	0.0397	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000945	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00207	0.00100	0.000132	1.00	
Selenium	0.000263	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0110	0.00500	0.000479	1.00	
Aluminum	0.00347	0.0500	0.00331	1.00	J
Iron	0.0708	0.0500	0.00926	1.00	
Manganese	0.0203	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-05-0402-24-D**	**05/06/15 02:15**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/12/15 00:52**	**150507LA6F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000244	0.00100	0.0000995	1.00	J
Arsenic	0.000733	0.00100	0.000386	1.00	B,J
Barium	0.0387	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000634	0.00100	0.000402	1.00	J
Copper	0.00275	0.00100	0.000140	1.00	
Lead	0.000124	0.00100	0.0000898	1.00	J
Nickel	0.00235	0.00100	0.000132	1.00	
Selenium	0.000317	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0278	0.00500	0.000479	1.00	
Aluminum	0.0117	0.0500	0.00331	1.00	J
Iron	0.0758	0.0500	0.00926	1.00	
Manganese	0.00682	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-05-0402-25-D**	**05/06/15 02:40**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/12/15 00:56**	**150507LA6F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	0.000941	0.00100	0.000386	1.00	B,J
Barium	0.0430	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00105	0.00100	0.000140	1.00	
Lead	0.000146	0.00100	0.0000898	1.00	J
Nickel	0.00225	0.00100	0.000132	1.00	
Selenium	0.000319	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0361	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0860	0.0500	0.00926	1.00	
Manganese	0.00175	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-693-820**	**N/A**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/09/15 02:52**	**150507LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	ND	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	ND	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	ND	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	ND	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	ND	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-693-821**	**N/A**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/09/15 02:56**	**150507LA6F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	0.000469	0.00100	0.000386	1.00	J
Barium	ND	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	ND	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	ND	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	ND	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	ND	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-05-0402-1-D**	**05/05/15 22:10**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:18**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-05-0402-2-D**	**05/05/15 22:20**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:20**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-05-0402-3-D**	**05/05/15 22:11**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:22**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-05-0402-4-D**	**05/05/15 22:49**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:24**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-05-0402-5-D**	**05/05/15 22:27**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:27**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-05-0402-6-D**	**05/05/15 22:46**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:29**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-05-0402-7-D**	**05/05/15 23:06**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:31**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-05-0402-8-D**	**05/05/15 23:24**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:33**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-05-0402-9-D**	**05/05/15 23:35**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:41**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-05-0402-10-D**	**05/05/15 22:11**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:43**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-05-0402-11-D**	**05/06/15 00:05**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:46**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Peak	**15-05-0402-12-D**	**05/05/15 23:30**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:48**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-05-0402-13-D**	**05/05/15 23:49**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:50**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-05-0402-14-D**	**05/06/15 00:06**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:52**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-05-0402-16-D**	**05/06/15 01:30**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:54**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-05-0402-17-D**	**05/06/15 02:15**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:57**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-05-0402-18-D**	**05/06/15 02:40**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:59**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-05-0402-19-D**	**05/06/15 03:05**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 19:01**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-05-0402-20-D**	**05/06/15 03:58**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 19:08**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-05-0402-21-D**	**05/06/15 04:20**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 19:10**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-05-0402-22-D**	**05/06/15 04:40**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 19:12**	**150511L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-05-0402-23-D**	**05/06/15 01:30**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 19:14**	**150511L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-05-0402-24-D**	**05/06/15 02:15**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 19:17**	**150511L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-05-0402-25-D**	**05/06/15 02:40**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 19:19**	**150511L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-763-554**	**N/A**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 17:55**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-763-555**	**N/A**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 17:58**	**150511L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
Units: ng/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-05-0402-1-I**	**05/05/15 22:10**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 13:18**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	10	9.8	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	43	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-05-0402-2-I**	**05/05/15 22:20**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 18:25**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	4800	200	20.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	47	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-05-0402-3-I**	**05/05/15 22:11**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 18:33**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	370	190	20.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	71	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-05-0402-4-I**	**05/05/15 22:49**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 18:42**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	3100	200	20.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	62	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-05-0402-5-I**	**05/05/15 22:27**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 18:50**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	350	97	10.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	66	31-200	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
Units: ng/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-05-0402-6-I**	**05/05/15 22:46**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 14:00**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	230	9.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	40	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-05-0402-7-I**	**05/05/15 23:06**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 14:08**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	180	9.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	40	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-05-0402-8-I**	**05/05/15 23:24**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 14:17**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	17	9.7	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	39	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-05-0402-9-I**	**05/05/15 23:35**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 19:01**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	830	98	10.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	57	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-05-0402-10-I**	**05/05/15 22:11**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 14:33**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	83	9.8	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	40	31-200	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
Units: ng/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-05-0402-11-I**	**05/06/15 00:05**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 14:42**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	44	9.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	37	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Peak	**15-05-0402-12-I**	**05/05/15 23:30**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 14:50**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	230	9.4	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	40	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-05-0402-13-I**	**05/05/15 23:49**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 19:10**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	870	48	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	51	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-05-0402-14-I**	**05/06/15 00:06**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 19:18**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	450	49	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	57	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-05-0402-16-I**	**05/06/15 01:30**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 15:15**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	13	9.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	46	31-200	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
Units: ng/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-05-0402-17-I**	**05/06/15 02:15**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 19:27**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	290	49	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	58	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-05-0402-18-I**	**05/06/15 02:40**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 15:32**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	25	9.6	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	40	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-05-0402-19-I**	**05/06/15 03:05**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 15:40**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	25	9.7	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	48	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-05-0402-20-I**	**05/06/15 03:58**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 15:48**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	130	9.6	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	44	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-05-0402-21-I**	**05/06/15 04:20**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 15:59**	**150512L22**

Parameter	Result	RL	DF	Qualifiers
Caffeine	110	9.8	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	46	31-200	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
Units: ng/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-05-0402-22-I**	**05/06/15 04:40**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 16:08**	**150512L22**

Parameter	Result	RL	DF	Qualifiers
Caffeine	190	9.7	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	47	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-05-0402-23-I**	**05/06/15 01:30**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 16:16**	**150512L22**

Parameter	Result	RL	DF	Qualifiers
Caffeine	14	9.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	35	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-05-0402-24-I**	**05/06/15 02:15**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 19:35**	**150512L22**

Parameter	Result	RL	DF	Qualifiers
Caffeine	340	20	2.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	47	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-05-0402-25-I**	**05/06/15 02:40**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 16:42**	**150512L22**

Parameter	Result	RL	DF	Qualifiers
Caffeine	25	9.8	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	46	31-200	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-376-13**	**N/A**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 12:36**	**150512L21**

Parameter	Result	RL	DF	Qualifiers
Caffeine	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	76	31-200	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
Units: ng/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-376-14**	**N/A**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 17:18**	**150512L22**

Parameter	Result	RL	DF	Qualifiers
Caffeine	ND	10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Caffeine-C13 (Surrogate)	77	31-200	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-05-0402-1-I**	**05/05/15 22:10**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 12:48**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.098	0.027	1.00	
Gamma-BHC	ND	0.098	0.029	1.00	
Beta-BHC	ND	0.098	0.029	1.00	
Heptachlor	ND	0.098	0.026	1.00	
Delta-BHC	ND	0.098	0.028	1.00	
Aldrin	ND	0.098	0.026	1.00	
Heptachlor Epoxide	ND	0.098	0.025	1.00	
Endosulfan I	ND	0.098	0.027	1.00	
Dieldrin	ND	0.098	0.028	1.00	
4,4'-DDE	ND	0.098	0.026	1.00	
Endrin	ND	0.098	0.030	1.00	
Endrin Aldehyde	ND	0.098	0.026	1.00	
4,4'-DDD	ND	0.098	0.027	1.00	
Endosulfan II	ND	0.098	0.027	1.00	
4,4'-DDT	ND	0.098	0.026	1.00	
Endosulfan Sulfate	ND	0.098	0.029	1.00	
Methoxychlor	ND	0.098	0.025	1.00	
Chlordane	ND	0.98	0.32	1.00	
Toxaphene	ND	2.0	0.58	1.00	
Endrin Ketone	ND	0.098	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	57	50-135	
2,4,5,6-Tetrachloro-m-Xylene	56	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-05-0402-2-I**	**05/05/15 22:20**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 13:03**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.098	0.027	1.00	
Gamma-BHC	ND	0.098	0.029	1.00	
Beta-BHC	ND	0.098	0.029	1.00	
Heptachlor	ND	0.098	0.026	1.00	
Delta-BHC	ND	0.098	0.028	1.00	
Aldrin	ND	0.098	0.026	1.00	
Heptachlor Epoxide	ND	0.098	0.025	1.00	
Endosulfan I	0.048	0.098	0.027	1.00	J
Dieldrin	ND	0.098	0.028	1.00	
4,4'-DDE	ND	0.098	0.026	1.00	
Endrin	ND	0.098	0.030	1.00	
Endrin Aldehyde	ND	0.098	0.026	1.00	
4,4'-DDD	ND	0.098	0.027	1.00	
Endosulfan II	ND	0.098	0.027	1.00	
4,4'-DDT	ND	0.098	0.026	1.00	
Endosulfan Sulfate	ND	0.098	0.029	1.00	
Methoxychlor	ND	0.098	0.025	1.00	
Chlordane	ND	0.98	0.32	1.00	
Toxaphene	ND	2.0	0.58	1.00	
Endrin Ketone	ND	0.098	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	50-135	
2,4,5,6-Tetrachloro-m-Xylene	102	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-05-0402-3-I**	**05/05/15 22:11**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 13:17**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	50-135	
2,4,5,6-Tetrachloro-m-Xylene	91	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-05-0402-4-F**	**05/05/15 22:49**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 13:31**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	0.045	0.10	0.028	1.00	J
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	50-135	
2,4,5,6-Tetrachloro-m-Xylene	95	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-05-0402-5-I**	**05/05/15 22:27**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 13:45**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	50-135	
2,4,5,6-Tetrachloro-m-Xylene	94	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-05-0402-6-I**	**05/05/15 22:46**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 14:00**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.097	0.027	1.00	
Gamma-BHC	ND	0.097	0.029	1.00	
Beta-BHC	ND	0.097	0.029	1.00	
Heptachlor	ND	0.097	0.026	1.00	
Delta-BHC	ND	0.097	0.028	1.00	
Aldrin	ND	0.097	0.026	1.00	
Heptachlor Epoxide	ND	0.097	0.024	1.00	
Endosulfan I	ND	0.097	0.027	1.00	
Dieldrin	ND	0.097	0.028	1.00	
4,4'-DDE	ND	0.097	0.026	1.00	
Endrin	ND	0.097	0.030	1.00	
Endrin Aldehyde	ND	0.097	0.026	1.00	
4,4'-DDD	ND	0.097	0.026	1.00	
Endosulfan II	ND	0.097	0.026	1.00	
4,4'-DDT	ND	0.097	0.026	1.00	
Endosulfan Sulfate	ND	0.097	0.028	1.00	
Methoxychlor	ND	0.097	0.024	1.00	
Chlordane	ND	0.97	0.32	1.00	
Toxaphene	ND	1.9	0.57	1.00	
Endrin Ketone	ND	0.097	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	87	50-135	
2,4,5,6-Tetrachloro-m-Xylene	93	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-05-0402-7-I**	**05/05/15 23:06**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 14:14**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	87	50-135	
2,4,5,6-Tetrachloro-m-Xylene	92	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-05-0402-8-I**	**05/05/15 23:24**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 16:17**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	80	50-135	
2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-05-0402-9-I**	**05/05/15 23:35**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 16:32**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	75	50-135	
2,4,5,6-Tetrachloro-m-Xylene	90	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-05-0402-10-I**	**05/05/15 22:11**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 16:46**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.096	0.027	1.00	
Gamma-BHC	ND	0.096	0.029	1.00	
Beta-BHC	ND	0.096	0.029	1.00	
Heptachlor	ND	0.096	0.025	1.00	
Delta-BHC	ND	0.096	0.027	1.00	
Aldrin	ND	0.096	0.026	1.00	
Heptachlor Epoxide	ND	0.096	0.024	1.00	
Endosulfan I	ND	0.096	0.027	1.00	
Dieldrin	ND	0.096	0.027	1.00	
4,4'-DDE	ND	0.096	0.026	1.00	
Endrin	ND	0.096	0.029	1.00	
Endrin Aldehyde	ND	0.096	0.025	1.00	
4,4'-DDD	ND	0.096	0.026	1.00	
Endosulfan II	ND	0.096	0.026	1.00	
4,4'-DDT	ND	0.096	0.026	1.00	
Endosulfan Sulfate	ND	0.096	0.028	1.00	
Methoxychlor	ND	0.096	0.024	1.00	
Chlordane	ND	0.96	0.32	1.00	
Toxaphene	ND	1.9	0.57	1.00	
Endrin Ketone	ND	0.096	0.023	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	50-135	
2,4,5,6-Tetrachloro-m-Xylene	93	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-05-0402-11-I**	**05/06/15 00:05**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 17:07**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	0	50-135	2,6
2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Peak	**15-05-0402-12-I**	**05/05/15 23:30**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 17:22**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	80	50-135	
2,4,5,6-Tetrachloro-m-Xylene	93	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-05-0402-13-I**	**05/05/15 23:49**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 17:36**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	55	50-135	
2,4,5,6-Tetrachloro-m-Xylene	61	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-05-0402-14-I**	**05/06/15 00:06**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 17:50**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	79	50-135	
2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-05-0402-16-I**	**05/06/15 01:30**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 18:04**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	77	50-135	
2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-05-0402-17-I**	**05/06/15 02:15**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 18:19**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	0.038	0.10	0.027	1.00	J
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	79	50-135	
2,4,5,6-Tetrachloro-m-Xylene	91	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-05-0402-18-I**	**05/06/15 02:40**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 18:33**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	71	50-135	
2,4,5,6-Tetrachloro-m-Xylene	78	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-05-0402-19-I**	**05/06/15 03:05**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 18:47**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	64	50-135	
2,4,5,6-Tetrachloro-m-Xylene	71	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-05-0402-20-I**	**05/06/15 03:58**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 19:02**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	67	50-135	
2,4,5,6-Tetrachloro-m-Xylene	70	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-05-0402-21-I**	**05/06/15 04:20**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 19:16**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	50-135	
2,4,5,6-Tetrachloro-m-Xylene	95	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-05-0402-22-I**	**05/06/15 04:40**	**Aqueous**	**GC 44**	**05/09/15**	**05/11/15 20:13**	**150509L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	75	50-135	
2,4,5,6-Tetrachloro-m-Xylene	92	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-05-0402-23-I**	**05/06/15 01:30**	**Aqueous**	**GC 44**	**05/09/15**	**05/11/15 20:27**	**150509L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	60	50-135	
2,4,5,6-Tetrachloro-m-Xylene	75	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-05-0402-24-I**	**05/06/15 02:15**	**Aqueous**	**GC 44**	**05/09/15**	**05/11/15 20:42**	**150509L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	77	50-135	
2,4,5,6-Tetrachloro-m-Xylene	103	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-05-0402-25-I**	**05/06/15 02:40**	**Aqueous**	**GC 44**	**05/09/15**	**05/11/15 20:56**	**150509L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	50-135	
2,4,5,6-Tetrachloro-m-Xylene	96	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-529-803**	**N/A**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 12:34**	**150508L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	50-135	
2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-529-804**	**N/A**	**Aqueous**	**GC 44**	**05/09/15**	**05/11/15 19:59**	**150509L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	50-135	
2,4,5,6-Tetrachloro-m-Xylene	108	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-05-0402-1-I**	**05/05/15 22:10**	**Aqueous**	**GC 31**	**05/08/15**	**05/11/15 18:57**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.98	0.29	1.00	
Aroclor-1221	ND	0.98	0.28	1.00	
Aroclor-1232	ND	0.98	0.24	1.00	
Aroclor-1242	ND	0.98	0.18	1.00	
Aroclor-1248	ND	0.98	0.20	1.00	
Aroclor-1254	ND	0.98	0.22	1.00	
Aroclor-1260	ND	0.98	0.26	1.00	
Aroclor-1262	ND	0.98	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	80	50-135	
2,4,5,6-Tetrachloro-m-Xylene	60	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-05-0402-2-I**	**05/05/15 22:20**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 15:45**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.98	0.29	1.00	
Aroclor-1221	ND	0.98	0.28	1.00	
Aroclor-1232	ND	0.98	0.24	1.00	
Aroclor-1242	ND	0.98	0.18	1.00	
Aroclor-1248	ND	0.98	0.20	1.00	
Aroclor-1254	ND	0.98	0.22	1.00	
Aroclor-1260	ND	0.98	0.26	1.00	
Aroclor-1262	ND	0.98	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	50-135	
2,4,5,6-Tetrachloro-m-Xylene	91	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-05-0402-3-I**	**05/05/15 22:11**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 16:04**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	91	50-135	
2,4,5,6-Tetrachloro-m-Xylene	85	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-05-0402-4-I**	**05/05/15 22:49**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 16:42**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	50-135	
2,4,5,6-Tetrachloro-m-Xylene	74	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-05-0402-5-I**	**05/05/15 22:27**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 17:20**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.99	0.29	1.00	
Aroclor-1221	ND	0.99	0.28	1.00	
Aroclor-1232	ND	0.99	0.25	1.00	
Aroclor-1242	ND	0.99	0.18	1.00	
Aroclor-1248	ND	0.99	0.20	1.00	
Aroclor-1254	ND	0.99	0.22	1.00	
Aroclor-1260	ND	0.99	0.26	1.00	
Aroclor-1262	ND	0.99	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	50-135	
2,4,5,6-Tetrachloro-m-Xylene	87	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-05-0402-6-I**	**05/05/15 22:46**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 17:40**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.97	0.29	1.00	
Aroclor-1221	ND	0.97	0.27	1.00	
Aroclor-1232	ND	0.97	0.24	1.00	
Aroclor-1242	ND	0.97	0.17	1.00	
Aroclor-1248	ND	0.97	0.20	1.00	
Aroclor-1254	ND	0.97	0.22	1.00	
Aroclor-1260	ND	0.97	0.26	1.00	
Aroclor-1262	ND	0.97	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	105	50-135	
2,4,5,6-Tetrachloro-m-Xylene	89	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-05-0402-7-I**	**05/05/15 23:06**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 17:59**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.99	0.29	1.00	
Aroclor-1221	ND	0.99	0.28	1.00	
Aroclor-1232	ND	0.99	0.25	1.00	
Aroclor-1242	ND	0.99	0.18	1.00	
Aroclor-1248	ND	0.99	0.20	1.00	
Aroclor-1254	ND	0.99	0.22	1.00	
Aroclor-1260	ND	0.99	0.26	1.00	
Aroclor-1262	ND	0.99	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	103	50-135	
2,4,5,6-Tetrachloro-m-Xylene	87	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-05-0402-8-I**	**05/05/15 23:24**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 18:18**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	103	50-135	
2,4,5,6-Tetrachloro-m-Xylene	83	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-05-0402-9-I**	**05/05/15 23:35**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 18:37**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	50-135	
2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-05-0402-10-I**	**05/05/15 22:11**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 18:56**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.96	0.28	1.00	
Aroclor-1221	ND	0.96	0.27	1.00	
Aroclor-1232	ND	0.96	0.24	1.00	
Aroclor-1242	ND	0.96	0.17	1.00	
Aroclor-1248	ND	0.96	0.19	1.00	
Aroclor-1254	ND	0.96	0.22	1.00	
Aroclor-1260	ND	0.96	0.25	1.00	
Aroclor-1262	ND	0.96	0.25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	101	50-135	
2,4,5,6-Tetrachloro-m-Xylene	84	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-05-0402-11-I**	**05/06/15 00:05**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 19:15**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	100	50-135	
2,4,5,6-Tetrachloro-m-Xylene	82	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Peak	**15-05-0402-12-I**	**05/05/15 23:30**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 19:34**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	50-135	
2,4,5,6-Tetrachloro-m-Xylene	83	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-05-0402-13-I**	**05/05/15 23:49**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 19:53**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	67	50-135	
2,4,5,6-Tetrachloro-m-Xylene	54	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-05-0402-14-I**	**05/06/15 00:06**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 20:12**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	50-135	
2,4,5,6-Tetrachloro-m-Xylene	76	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-05-0402-16-I**	**05/06/15 01:30**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 20:31**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	50-135	
2,4,5,6-Tetrachloro-m-Xylene	77	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-05-0402-17-I**	**05/06/15 02:15**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 20:50**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	50-135	
2,4,5,6-Tetrachloro-m-Xylene	82	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-05-0402-18-I**	**05/06/15 02:40**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 21:09**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	91	50-135	
2,4,5,6-Tetrachloro-m-Xylene	72	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-05-0402-19-I**	**05/06/15 03:05**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 21:28**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	50-135	
2,4,5,6-Tetrachloro-m-Xylene	64	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-05-0402-20-I**	**05/06/15 03:58**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 21:47**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	80	50-135	
2,4,5,6-Tetrachloro-m-Xylene	63	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-05-0402-21-I**	**05/06/15 04:20**	**Aqueous**	**GC 31**	**05/08/15**	**05/12/15 22:06**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	106	50-135	
2,4,5,6-Tetrachloro-m-Xylene	89	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-05-0402-22-I**	**05/06/15 04:40**	**Aqueous**	**GC 31**	**05/09/15**	**05/12/15 22:25**	**150509L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	50-135	
2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-05-0402-23-I**	**05/06/15 01:30**	**Aqueous**	**GC 31**	**05/09/15**	**05/12/15 22:44**	**150509L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	79	50-135	
2,4,5,6-Tetrachloro-m-Xylene	69	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-05-0402-24-I**	**05/06/15 02:15**	**Aqueous**	**GC 31**	**05/09/15**	**05/12/15 23:03**	**150509L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	107	50-135	
2,4,5,6-Tetrachloro-m-Xylene	95	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-05-0402-25-I**	**05/06/15 02:40**	**Aqueous**	**GC 31**	**05/09/15**	**05/12/15 23:22**	**150509L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	110	50-135	
2,4,5,6-Tetrachloro-m-Xylene	91	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-533-1035**	**N/A**	**Aqueous**	**GC 31**	**05/08/15**	**05/11/15 18:38**	**150508L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	105	50-135	
2,4,5,6-Tetrachloro-m-Xylene	83	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-533-1034**	**N/A**	**Aqueous**	**GC 31**	**05/09/15**	**05/11/15 17:21**	**150509L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	105	50-135	
2,4,5,6-Tetrachloro-m-Xylene	98	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-05-0402-1-I**	**05/05/15 22:10**	**Aqueous**	**GC 26**	**05/09/15**	**05/12/15 13:25**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	130	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-05-0402-2-I**	**05/05/15 22:20**	**Aqueous**	**GC 26**	**05/09/15**	**05/12/15 14:10**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	140	30-130	2,7

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-05-0402-3-I**	**05/05/15 22:11**	**Aqueous**	**GC 26**	**05/09/15**	**05/12/15 14:54**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	122	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8141A
		Units:	mg/L
Project: EAA 27122			Page 4 of 26

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-05-0402-4-I**	**05/05/15 22:49**	**Aqueous**	**GC 26**	**05/09/15**	**05/12/15 15:38**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	129	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-05-0402-5-I**	**05/05/15 22:27**	**Aqueous**	**GC 26**	**05/09/15**	**05/12/15 16:22**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	130	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-05-0402-6-I**	**05/05/15 22:46**	**Aqueous**	**GC 26**	**05/09/15**	**05/12/15 17:50**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	114	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-05-0402-7-I**	**05/05/15 23:06**	**Aqueous**	**GC 26**	**05/09/15**	**05/12/15 18:34**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	121	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-05-0402-8-I**	**05/05/15 23:24**	**Aqueous**	**GC 26**	**05/09/15**	**05/12/15 19:19**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	113	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-05-0402-9-I**	**05/05/15 23:35**	**Aqueous**	**GC 26**	**05/09/15**	**05/12/15 20:03**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	123	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-05-0402-10-I**	**05/05/15 22:11**	**Aqueous**	**GC 26**	**05/09/15**	**05/12/15 20:47**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	117	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-05-0402-11-I**	**05/06/15 00:05**	**Aqueous**	**GC 26**	**05/09/15**	**05/12/15 21:31**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	114	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Peak	**15-05-0402-12-I**	**05/05/15 23:30**	**Aqueous**	**GC 26**	**05/09/15**	**05/12/15 22:15**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	114	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

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6200 UTSA Blvd., Suite 102
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Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-05-0402-13-I**	**05/05/15 23:49**	**Aqueous**	**GC 26**	**05/09/15**	**05/12/15 22:59**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	101	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-05-0402-14-I**	**05/06/15 00:06**	**Aqueous**	**GC 26**	**05/09/15**	**05/13/15 00:27**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	91	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-05-0402-16-I**	**05/06/15 01:30**	**Aqueous**	**GC 26**	**05/09/15**	**05/13/15 01:11**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	92	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-05-0402-17-I**	**05/06/15 02:15**	**Aqueous**	**GC 26**	**05/09/15**	**05/13/15 01:55**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	98	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-05-0402-18-I**	**05/06/15 02:40**	**Aqueous**	**GC 26**	**05/09/15**	**05/13/15 02:40**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	96	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-05-0402-19-I**	**05/06/15 03:05**	**Aqueous**	**GC 26**	**05/09/15**	**05/13/15 03:24**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	96	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-05-0402-20-I**	**05/06/15 03:58**	**Aqueous**	**GC 26**	**05/09/15**	**05/13/15 04:08**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	98	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-05-0402-21-I**	**05/06/15 04:20**	**Aqueous**	**GC 26**	**05/09/15**	**05/13/15 04:52**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	100	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-05-0402-22-I**	**05/06/15 04:40**	**Aqueous**	**GC 26**	**05/09/15**	**05/13/15 07:48**	**150509L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	91	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-05-0402-23-I**	**05/06/15 01:30**	**Aqueous**	**GC 26**	**05/09/15**	**05/13/15 08:33**	**150509L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	91	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-05-0402-24-I**	**05/06/15 02:15**	**Aqueous**	**GC 26**	**05/09/15**	**05/13/15 09:17**	**150509L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	83	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-05-0402-25-I**	**05/06/15 02:40**	**Aqueous**	**GC 26**	**05/09/15**	**05/13/15 09:58**	**150509L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	90	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-963-93**	**N/A**	**Aqueous**	**GC 26**	**05/09/15**	**05/12/15 11:13**	**150509L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	106	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-963-94**	**N/A**	**Aqueous**	**GC 26**	**05/09/15**	**05/13/15 05:36**	**150509L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	104	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-05-0402-1-I**	**05/05/15 22:10**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 05:45**	**150508L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	67	0-123	

HSM 230 Lead	15-05-0402-2-I	05/05/15 22:20	Aqueous	GC 40	05/08/15	05/15/15 06:08	150508L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	93	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-05-0402-3-I**	**05/05/15 22:11**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 06:31**	**150508L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	83	0-123	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-05-0402-4-I**	**05/05/15 22:49**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 06:55**	**150508L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	79	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-05-0402-5-I**	**05/05/15 22:27**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 07:18**	**150508L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	77	0-123	

HSM 260 Lead	15-05-0402-6-I	05/05/15 22:46	Aqueous	GC 40	05/08/15	05/15/15 07:41	150508L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	86	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-05-0402-7-I**	**05/05/15 23:06**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 08:04**	**150508L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	86	0-123	

HSM 210 Peak	15-05-0402-8-I	05/05/15 23:24	Aqueous	GC 40	05/08/15	05/15/15 08:27	150508L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	77	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-05-0402-9-I**	**05/05/15 23:35**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 08:51**	**150508L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	80	0-123	

HSM 231 Peak	15-05-0402-10-I	05/05/15 22:11	Aqueous	GC 40	05/08/15	05/15/15 09:14	150508L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	95	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-05-0402-11-I**	**05/06/15 00:05**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 09:37**	**150508L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	75	0-123	

HSM 250 Peak	15-05-0402-12-I	05/05/15 23:30	Aqueous	GC 40	05/08/15	05/15/15 10:00	150508L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	52	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-05-0402-13-I**	**05/05/15 23:49**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 10:47**	**150508L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	82	0-123	

HSM 270 Peak	15-05-0402-14-I	05/06/15 00:06	Aqueous	GC 40	05/08/15	05/15/15 11:10	150508L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	87	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-05-0402-16-I**	**05/06/15 01:30**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 11:33**	**150508L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	82	0-123	

HSM 230 Trail	15-05-0402-17-I	05/06/15 02:15	Aqueous	GC 40	05/08/15	05/15/15 11:56	150508L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	76	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-05-0402-18-I**	**05/06/15 02:40**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 12:19**	**150508L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	89	0-123	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-05-0402-19-I**	**05/06/15 03:05**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 12:42**	**150508L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	83	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-05-0402-20-I**	**05/06/15 03:58**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 13:06**	**150508L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	82	0-123	

HSM 260 Trail	15-05-0402-21-I	05/06/15 04:20	Aqueous	GC 40	05/08/15	05/15/15 13:29	150508L12

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	88	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-05-0402-22-I**	**05/06/15 04:40**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 13:52**	**150508L13**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	84	0-123	

FDHSM 210 Trail	15-05-0402-23-I	05/06/15 01:30	Aqueous	GC 40	05/08/15	05/15/15 14:15	150508L13

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	85	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-05-0402-24-I**	**05/06/15 02:15**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 14:38**	**150508L13**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	71	0-123	

FDHSM 231 Trail	15-05-0402-25-I	05/06/15 02:40	Aqueous	GC 40	05/08/15	05/15/15 15:01	150508L13

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	85	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-034-644**	**N/A**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 01:30**	**150508L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	101	0-123	

Method Blank	095-01-034-645	N/A	Aqueous	GC 40	05/08/15	05/15/15 03:03	150508L13

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	100	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-05-0402-1-H**	**05/05/15 22:10**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 14:06**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 3 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	88	33-120	
2-Fluorophenol	81	24-120	
Nitrobenzene-d5	78	38-120	
p-Terphenyl-d14	87	41-137	
Phenol-d6	82	16-120	
2,4,6-Tribromophenol	78	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-05-0402-2-H**	**05/05/15 22:20**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 14:40**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	11	3.0	1.00	
Acenaphthylene	ND	11	3.1	1.00	
Aniline	ND	11	1.6	1.00	
Anthracene	ND	11	3.2	1.00	
Azobenzene	ND	11	2.8	1.00	
Benzidine	ND	53	6.9	1.00	
Benzo (a) Anthracene	ND	11	5.0	1.00	
Benzo (a) Pyrene	ND	11	2.6	1.00	
Benzo (b) Fluoranthene	ND	11	2.4	1.00	
Benzo (g,h,i) Perylene	ND	11	2.7	1.00	
Benzo (k) Fluoranthene	ND	11	3.4	1.00	
Benzoic Acid	ND	53	13	1.00	
Benzyl Alcohol	ND	11	2.3	1.00	
Bis(2-Chloroethoxy) Methane	ND	11	2.7	1.00	
Bis(2-Chloroethyl) Ether	ND	27	2.6	1.00	
Bis(2-Chloroisopropyl) Ether	ND	11	3.4	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	11	3.4	1.00	
4-Bromophenyl-Phenyl Ether	ND	11	2.9	1.00	
Butyl Benzyl Phthalate	ND	11	2.6	1.00	
4-Chloro-3-Methylphenol	ND	11	2.5	1.00	
4-Chloroaniline	ND	11	2.1	1.00	
2-Chloronaphthalene	ND	11	2.9	1.00	
2-Chlorophenol	ND	11	2.5	1.00	
4-Chlorophenyl-Phenyl Ether	ND	11	2.8	1.00	
Chrysene	ND	11	3.0	1.00	
Di-n-Butyl Phthalate	ND	11	3.1	1.00	
Di-n-Octyl Phthalate	ND	11	2.6	1.00	
Dibenz (a,h) Anthracene	ND	11	2.7	1.00	
Dibenzofuran	ND	11	3.0	1.00	
1,2-Dichlorobenzene	ND	11	3.2	1.00	
1,3-Dichlorobenzene	ND	11	3.3	1.00	
1,4-Dichlorobenzene	ND	11	3.1	1.00	
3,3'-Dichlorobenzidine	ND	27	2.8	1.00	
2,4-Dichlorophenol	ND	11	2.6	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	11	2.9	1.00	
Dimethyl Phthalate	ND	11	2.8	1.00	
2,4-Dimethylphenol	ND	11	2.6	1.00	
4,6-Dinitro-2-Methylphenol	ND	53	15	1.00	
2,4-Dinitrophenol	ND	53	14	1.00	
2,4-Dinitrotoluene	ND	11	2.5	1.00	
2,6-Dinitrotoluene	ND	11	2.5	1.00	
Fluoranthene	ND	11	3.3	1.00	
Fluorene	ND	11	2.9	1.00	
Hexachloro-1,3-Butadiene	ND	11	3.1	1.00	
Hexachlorobenzene	ND	11	3.3	1.00	
Hexachlorocyclopentadiene	ND	27	7.4	1.00	
Hexachloroethane	ND	11	3.2	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	11	2.3	1.00	
Isophorone	ND	11	2.7	1.00	
2-Methylnaphthalene	ND	11	3.0	1.00	
1-Methylnaphthalene	ND	11	3.0	1.00	
2-Methylphenol	ND	11	2.2	1.00	
3/4-Methylphenol	ND	11	2.3	1.00	
N-Nitroso-di-n-propylamine	ND	11	2.5	1.00	
N-Nitrosodimethylamine	ND	11	3.4	1.00	
N-Nitrosodiphenylamine	ND	11	2.9	1.00	
Naphthalene	ND	11	3.0	1.00	
4-Nitroaniline	ND	11	2.3	1.00	
3-Nitroaniline	ND	11	2.4	1.00	
2-Nitroaniline	ND	11	2.4	1.00	
Nitrobenzene	ND	27	3.2	1.00	
4-Nitrophenol	ND	11	1.7	1.00	
2-Nitrophenol	ND	11	2.8	1.00	
Pentachlorophenol	ND	11	4.9	1.00	
Phenanthrene	ND	11	3.1	1.00	
Phenol	ND	11	2.2	1.00	
Pyrene	ND	11	3.2	1.00	
Pyridine	ND	11	3.2	1.00	
1,2,4-Trichlorobenzene	ND	11	3.0	1.00	
2,4,6-Trichlorophenol	ND	11	2.7	1.00	
2,4,5-Trichlorophenol	ND	11	2.7	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 6 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	84	33-120	
2-Fluorophenol	79	24-120	
Nitrobenzene-d5	75	38-120	
p-Terphenyl-d14	87	41-137	
Phenol-d6	83	16-120	
2,4,6-Tribromophenol	82	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-05-0402-3-H**	**05/05/15 22:11**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 14:58**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 9 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	91	33-120	
2-Fluorophenol	84	24-120	
Nitrobenzene-d5	82	38-120	
p-Terphenyl-d14	88	41-137	
Phenol-d6	87	16-120	
2,4,6-Tribromophenol	82	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-05-0402-4-H**	**05/05/15 22:49**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 15:16**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 12 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	98	33-120	
2-Fluorophenol	91	24-120	
Nitrobenzene-d5	88	38-120	
p-Terphenyl-d14	95	41-137	
Phenol-d6	96	16-120	
2,4,6-Tribromophenol	91	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-05-0402-5-H**	**05/05/15 22:27**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 15:34**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 15 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	95	33-120	
2-Fluorophenol	87	24-120	
Nitrobenzene-d5	85	38-120	
p-Terphenyl-d14	93	41-137	
Phenol-d6	89	16-120	
2,4,6-Tribromophenol	87	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-05-0402-6-H**	**05/05/15 22:46**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 15:52**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 18 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	86	33-120	
2-Fluorophenol	78	24-120	
Nitrobenzene-d5	76	38-120	
p-Terphenyl-d14	82	41-137	
Phenol-d6	82	16-120	
2,4,6-Tribromophenol	76	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-05-0402-7-H**	**05/05/15 23:06**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 16:10**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 21 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	92	33-120	
2-Fluorophenol	84	24-120	
Nitrobenzene-d5	81	38-120	
p-Terphenyl-d14	85	41-137	
Phenol-d6	89	16-120	
2,4,6-Tribromophenol	79	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-05-0402-8-H**	**05/05/15 23:24**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 16:28**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 24 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	81	33-120	
2-Fluorophenol	74	24-120	
Nitrobenzene-d5	71	38-120	
p-Terphenyl-d14	77	41-137	
Phenol-d6	78	16-120	
2,4,6-Tribromophenol	68	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-05-0402-9-H**	**05/05/15 23:35**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 17:22**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.7	1.00	
Benzidine	ND	51	6.6	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.6	1.00	
Benzo (k) Fluoranthene	ND	10	3.3	1.00	
Benzoic Acid	ND	51	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.6	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.3	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.8	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.9	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.6	1.00	
Dibenzofuran	ND	10	2.9	1.00	
1,2-Dichlorobenzene	ND	10	3.1	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.5	1.00	
4,6-Dinitro-2-Methylphenol	ND	51	14	1.00	
2,4-Dinitrophenol	ND	51	14	1.00	
2,4-Dinitrotoluene	ND	10	2.4	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	7.0	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.2	1.00	
Isophorone	ND	10	2.6	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.9	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.2	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.3	1.00	
Nitrobenzene	ND	25	3.1	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.7	1.00	
Phenanthrene	ND	10	3.0	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.9	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 27 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	79	33-120	
2-Fluorophenol	74	24-120	
Nitrobenzene-d5	70	38-120	
p-Terphenyl-d14	77	41-137	
Phenol-d6	77	16-120	
2,4,6-Tribromophenol	70	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-05-0402-10-H**	**05/05/15 22:11**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 16:46**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.8	2.8	1.00	
Acenaphthylene	ND	9.8	2.8	1.00	
Aniline	ND	9.8	1.5	1.00	
Anthracene	ND	9.8	3.0	1.00	
Azobenzene	ND	9.8	2.6	1.00	
Benzidine	ND	49	6.4	1.00	
Benzo (a) Anthracene	ND	9.8	4.6	1.00	
Benzo (a) Pyrene	ND	9.8	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.8	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.8	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.8	3.2	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.8	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.8	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.8	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.8	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.8	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.8	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.8	2.3	1.00	
4-Chloroaniline	ND	9.8	1.9	1.00	
2-Chloronaphthalene	ND	9.8	2.7	1.00	
2-Chlorophenol	ND	9.8	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.8	2.6	1.00	
Chrysene	ND	9.8	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.8	2.9	1.00	
Di-n-Octyl Phthalate	ND	9.8	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.8	2.5	1.00	
Dibenzofuran	ND	9.8	2.8	1.00	
1,2-Dichlorobenzene	ND	9.8	3.0	1.00	
1,3-Dichlorobenzene	ND	9.8	3.0	1.00	
1,4-Dichlorobenzene	ND	9.8	2.8	1.00	
3,3'-Dichlorobenzidine	ND	25	2.5	1.00	
2,4-Dichlorophenol	ND	9.8	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.8	2.7	1.00	
Dimethyl Phthalate	ND	9.8	2.6	1.00	
2,4-Dimethylphenol	ND	9.8	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.8	2.3	1.00	
2,6-Dinitrotoluene	ND	9.8	2.3	1.00	
Fluoranthene	ND	9.8	3.0	1.00	
Fluorene	ND	9.8	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	9.8	2.8	1.00	
Hexachlorobenzene	ND	9.8	3.0	1.00	
Hexachlorocyclopentadiene	ND	25	6.8	1.00	
Hexachloroethane	ND	9.8	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.8	2.1	1.00	
Isophorone	ND	9.8	2.5	1.00	
2-Methylnaphthalene	ND	9.8	2.8	1.00	
1-Methylnaphthalene	ND	9.8	2.8	1.00	
2-Methylphenol	ND	9.8	2.1	1.00	
3/4-Methylphenol	ND	9.8	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.8	2.3	1.00	
N-Nitrosodimethylamine	ND	9.8	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.8	2.7	1.00	
Naphthalene	ND	9.8	2.8	1.00	
4-Nitroaniline	ND	9.8	2.1	1.00	
3-Nitroaniline	ND	9.8	2.2	1.00	
2-Nitroaniline	ND	9.8	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	9.8	1.6	1.00	
2-Nitrophenol	ND	9.8	2.5	1.00	
Pentachlorophenol	ND	9.8	4.6	1.00	
Phenanthrene	ND	9.8	2.9	1.00	
Phenol	ND	9.8	2.0	1.00	
Pyrene	ND	9.8	2.9	1.00	
Pyridine	ND	9.8	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.8	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.8	2.5	1.00	
2,4,5-Trichlorophenol	ND	9.8	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 30 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	87	33-120	
2-Fluorophenol	80	24-120	
Nitrobenzene-d5	77	38-120	
p-Terphenyl-d14	84	41-137	
Phenol-d6	82	16-120	
2,4,6-Tribromophenol	75	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-05-0402-11-H**	**05/06/15 00:05**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 17:04**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 33 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	87	33-120	
2-Fluorophenol	81	24-120	
Nitrobenzene-d5	78	38-120	
p-Terphenyl-d14	83	41-137	
Phenol-d6	83	16-120	
2,4,6-Tribromophenol	75	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Peak	**15-05-0402-12-H**	**05/05/15 23:30**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 18:01**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 36 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	84	33-120	
2-Fluorophenol	76	24-120	
Nitrobenzene-d5	75	38-120	
p-Terphenyl-d14	80	41-137	
Phenol-d6	80	16-120	
2,4,6-Tribromophenol	72	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-05-0402-13-H**	**05/05/15 23:49**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 18:19**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 39 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	82	33-120	
2-Fluorophenol	59	24-120	
Nitrobenzene-d5	80	38-120	
p-Terphenyl-d14	87	41-137	
Phenol-d6	40	16-120	
2,4,6-Tribromophenol	77	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-05-0402-14-H**	**05/06/15 00:06**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/13/15 13:28**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 42 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	73	33-120	
2-Fluorophenol	54	24-120	
Nitrobenzene-d5	76	38-120	
p-Terphenyl-d14	81	41-137	
Phenol-d6	36	16-120	
2,4,6-Tribromophenol	78	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-05-0402-16-H**	**05/06/15 01:30**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/13/15 13:46**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 45 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	76	33-120	
2-Fluorophenol	57	24-120	
Nitrobenzene-d5	79	38-120	
p-Terphenyl-d14	83	41-137	
Phenol-d6	37	16-120	
2,4,6-Tribromophenol	76	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-05-0402-17-H**	**05/06/15 02:15**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 18:37**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.5	1.00	
Benzo (k) Fluoranthene	ND	10	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.7	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.8	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.5	1.00	
Dibenzofuran	ND	10	2.8	1.00	
1,2-Dichlorobenzene	ND	10	3.0	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	10	2.3	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.1	1.00	
Isophorone	ND	10	2.5	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.8	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.1	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.6	1.00	
Phenanthrene	ND	10	2.9	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.8	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 48 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	79	33-120	
2-Fluorophenol	59	24-120	
Nitrobenzene-d5	77	38-120	
p-Terphenyl-d14	84	41-137	
Phenol-d6	41	16-120	
2,4,6-Tribromophenol	73	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-05-0402-18-H**	**05/06/15 02:40**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 17:39**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 51 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	87	33-120	
2-Fluorophenol	63	24-120	
Nitrobenzene-d5	85	38-120	
p-Terphenyl-d14	92	41-137	
Phenol-d6	44	16-120	
2,4,6-Tribromophenol	84	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-05-0402-19-H**	**05/06/15 03:05**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 18:55**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 54 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	81	33-120	
2-Fluorophenol	59	24-120	
Nitrobenzene-d5	80	38-120	
p-Terphenyl-d14	85	41-137	
Phenol-d6	40	16-120	
2,4,6-Tribromophenol	78	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-05-0402-20-H**	**05/06/15 03:58**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/13/15 14:04**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.7	2.7	1.00	
Acenaphthylene	ND	9.7	2.8	1.00	
Aniline	ND	9.7	1.5	1.00	
Anthracene	ND	9.7	2.9	1.00	
Azobenzene	ND	9.7	2.6	1.00	
Benzidine	ND	49	6.3	1.00	
Benzo (a) Anthracene	ND	9.7	4.5	1.00	
Benzo (a) Pyrene	ND	9.7	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.7	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.7	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.7	3.1	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.7	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.7	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.7	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.7	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.7	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.7	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.7	2.3	1.00	
4-Chloroaniline	ND	9.7	1.9	1.00	
2-Chloronaphthalene	ND	9.7	2.7	1.00	
2-Chlorophenol	ND	9.7	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.7	2.6	1.00	
Chrysene	ND	9.7	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.7	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.7	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.7	2.5	1.00	
Dibenzofuran	ND	9.7	2.7	1.00	
1,2-Dichlorobenzene	ND	9.7	3.0	1.00	
1,3-Dichlorobenzene	ND	9.7	3.0	1.00	
1,4-Dichlorobenzene	ND	9.7	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.7	2.7	1.00	
Dimethyl Phthalate	ND	9.7	2.5	1.00	
2,4-Dimethylphenol	ND	9.7	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.7	2.3	1.00	
2,6-Dinitrotoluene	ND	9.7	2.3	1.00	
Fluoranthene	ND	9.7	3.0	1.00	
Fluorene	ND	9.7	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.7	2.8	1.00	
Hexachlorobenzene	ND	9.7	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.7	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.7	2.1	1.00	
Isophorone	ND	9.7	2.5	1.00	
2-Methylnaphthalene	ND	9.7	2.7	1.00	
1-Methylnaphthalene	ND	9.7	2.7	1.00	
2-Methylphenol	ND	9.7	2.0	1.00	
3/4-Methylphenol	ND	9.7	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.7	2.3	1.00	
N-Nitrosodimethylamine	ND	9.7	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.7	2.7	1.00	
Naphthalene	ND	9.7	2.8	1.00	
4-Nitroaniline	ND	9.7	2.1	1.00	
3-Nitroaniline	ND	9.7	2.2	1.00	
2-Nitroaniline	ND	9.7	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.7	1.5	1.00	
2-Nitrophenol	ND	9.7	2.5	1.00	
Pentachlorophenol	ND	9.7	4.5	1.00	
Phenanthrene	ND	9.7	2.8	1.00	
Phenol	ND	9.7	2.0	1.00	
Pyrene	ND	9.7	2.9	1.00	
Pyridine	ND	9.7	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.7	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.7	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 57 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	78	33-120	
2-Fluorophenol	49	24-120	
Nitrobenzene-d5	78	38-120	
p-Terphenyl-d14	81	41-137	
Phenol-d6	30	16-120	
2,4,6-Tribromophenol	75	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-05-0402-21-H**	**05/06/15 04:20**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/13/15 14:22**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.7	2.7	1.00	
Acenaphthylene	ND	9.7	2.8	1.00	
Aniline	ND	9.7	1.5	1.00	
Anthracene	ND	9.7	2.9	1.00	
Azobenzene	ND	9.7	2.6	1.00	
Benzidine	ND	49	6.3	1.00	
Benzo (a) Anthracene	ND	9.7	4.5	1.00	
Benzo (a) Pyrene	ND	9.7	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.7	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.7	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.7	3.1	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.7	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.7	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.7	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.7	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.7	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.7	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.7	2.3	1.00	
4-Chloroaniline	ND	9.7	1.9	1.00	
2-Chloronaphthalene	ND	9.7	2.7	1.00	
2-Chlorophenol	ND	9.7	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.7	2.6	1.00	
Chrysene	ND	9.7	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.7	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.7	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.7	2.5	1.00	
Dibenzofuran	ND	9.7	2.7	1.00	
1,2-Dichlorobenzene	ND	9.7	3.0	1.00	
1,3-Dichlorobenzene	ND	9.7	3.0	1.00	
1,4-Dichlorobenzene	ND	9.7	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.7	2.7	1.00	
Dimethyl Phthalate	ND	9.7	2.5	1.00	
2,4-Dimethylphenol	ND	9.7	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.7	2.3	1.00	
2,6-Dinitrotoluene	ND	9.7	2.3	1.00	
Fluoranthene	ND	9.7	3.0	1.00	
Fluorene	ND	9.7	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.7	2.8	1.00	
Hexachlorobenzene	ND	9.7	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.7	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.7	2.1	1.00	
Isophorone	ND	9.7	2.5	1.00	
2-Methylnaphthalene	ND	9.7	2.7	1.00	
1-Methylnaphthalene	ND	9.7	2.7	1.00	
2-Methylphenol	ND	9.7	2.0	1.00	
3/4-Methylphenol	ND	9.7	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.7	2.3	1.00	
N-Nitrosodimethylamine	ND	9.7	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.7	2.7	1.00	
Naphthalene	ND	9.7	2.8	1.00	
4-Nitroaniline	ND	9.7	2.1	1.00	
3-Nitroaniline	ND	9.7	2.2	1.00	
2-Nitroaniline	ND	9.7	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.7	1.5	1.00	
2-Nitrophenol	ND	9.7	2.5	1.00	
Pentachlorophenol	ND	9.7	4.5	1.00	
Phenanthrene	ND	9.7	2.8	1.00	
Phenol	ND	9.7	2.0	1.00	
Pyrene	ND	9.7	2.9	1.00	
Pyridine	ND	9.7	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.7	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.7	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 60 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	89	33-120	
2-Fluorophenol	62	24-120	
Nitrobenzene-d5	90	38-120	
p-Terphenyl-d14	94	41-137	
Phenol-d6	38	16-120	
2,4,6-Tribromophenol	87	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-05-0402-22-H**	**05/06/15 04:40**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/13/15 14:39**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.7	2.7	1.00	
Acenaphthylene	ND	9.7	2.8	1.00	
Aniline	ND	9.7	1.5	1.00	
Anthracene	ND	9.7	2.9	1.00	
Azobenzene	ND	9.7	2.6	1.00	
Benzidine	ND	49	6.3	1.00	
Benzo (a) Anthracene	ND	9.7	4.5	1.00	
Benzo (a) Pyrene	ND	9.7	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.7	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.7	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.7	3.1	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.7	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.7	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.7	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.7	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.7	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.7	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.7	2.3	1.00	
4-Chloroaniline	ND	9.7	1.9	1.00	
2-Chloronaphthalene	ND	9.7	2.7	1.00	
2-Chlorophenol	ND	9.7	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.7	2.6	1.00	
Chrysene	ND	9.7	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.7	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.7	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.7	2.5	1.00	
Dibenzofuran	ND	9.7	2.7	1.00	
1,2-Dichlorobenzene	ND	9.7	3.0	1.00	
1,3-Dichlorobenzene	ND	9.7	3.0	1.00	
1,4-Dichlorobenzene	ND	9.7	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.7	2.7	1.00	
Dimethyl Phthalate	ND	9.7	2.5	1.00	
2,4-Dimethylphenol	ND	9.7	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.7	2.3	1.00	
2,6-Dinitrotoluene	ND	9.7	2.3	1.00	
Fluoranthene	ND	9.7	3.0	1.00	
Fluorene	ND	9.7	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.7	2.8	1.00	
Hexachlorobenzene	ND	9.7	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.7	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.7	2.1	1.00	
Isophorone	ND	9.7	2.5	1.00	
2-Methylnaphthalene	ND	9.7	2.7	1.00	
1-Methylnaphthalene	ND	9.7	2.7	1.00	
2-Methylphenol	ND	9.7	2.0	1.00	
3/4-Methylphenol	ND	9.7	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.7	2.3	1.00	
N-Nitrosodimethylamine	ND	9.7	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.7	2.7	1.00	
Naphthalene	ND	9.7	2.8	1.00	
4-Nitroaniline	ND	9.7	2.1	1.00	
3-Nitroaniline	ND	9.7	2.2	1.00	
2-Nitroaniline	ND	9.7	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.7	1.5	1.00	
2-Nitrophenol	ND	9.7	2.5	1.00	
Pentachlorophenol	ND	9.7	4.5	1.00	
Phenanthrene	ND	9.7	2.8	1.00	
Phenol	ND	9.7	2.0	1.00	
Pyrene	ND	9.7	2.9	1.00	
Pyridine	ND	9.7	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.7	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.7	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 63 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	77	33-120	
2-Fluorophenol	52	24-120	
Nitrobenzene-d5	77	38-120	
p-Terphenyl-d14	79	41-137	
Phenol-d6	33	16-120	
2,4,6-Tribromophenol	75	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-05-0402-23-H**	**05/06/15 01:30**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/13/15 14:58**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 66 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	86	33-120	
2-Fluorophenol	56	24-120	
Nitrobenzene-d5	83	38-120	
p-Terphenyl-d14	88	41-137	
Phenol-d6	35	16-120	
2,4,6-Tribromophenol	81	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-05-0402-25-H**	**05/06/15 02:40**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/13/15 15:15**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 69 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	81	33-120	
2-Fluorophenol	52	24-120	
Nitrobenzene-d5	80	38-120	
p-Terphenyl-d14	86	41-137	
Phenol-d6	32	16-120	
2,4,6-Tribromophenol	77	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-4039**	**N/A**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 13:13**	**150509L06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.5	1.00	
Benzo (k) Fluoranthene	ND	10	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.7	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.8	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.5	1.00	
Dibenzofuran	ND	10	2.8	1.00	
1,2-Dichlorobenzene	ND	10	3.0	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	10	2.3	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.1	1.00	
Isophorone	ND	10	2.5	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.8	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.1	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.6	1.00	
Phenanthrene	ND	10	2.9	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.8	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	05/07/15
6200 UTSA Blvd., Suite 102	Work Order:	15-05-0402
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 72 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	89	33-120	
2-Fluorophenol	80	24-120	
Nitrobenzene-d5	80	38-120	
p-Terphenyl-d14	86	41-137	
Phenol-d6	85	16-120	
2,4,6-Tribromophenol	79	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-4040**	**N/A**	**Aqueous**	**GC/MS TT**	**05/11/15**	**05/12/15 12:57**	**150511L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.5	1.00	
Benzo (k) Fluoranthene	ND	10	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.7	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.8	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.5	1.00	
Dibenzofuran	ND	10	2.8	1.00	
1,2-Dichlorobenzene	ND	10	3.0	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	10	2.3	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.1	1.00	
Isophorone	ND	10	2.5	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.8	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.1	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.6	1.00	
Phenanthrene	ND	10	2.9	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.8	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 75 of 75

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	83	33-120	
2-Fluorophenol	73	24-120	
Nitrobenzene-d5	71	38-120	
p-Terphenyl-d14	75	41-137	
Phenol-d6	71	16-120	
2,4,6-Tribromophenol	87	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-05-0402-1-A**	**05/05/15 22:10**	**Aqueous**	**GC/MS BB**	**05/09/15**	**05/09/15 14:27**	**150509L027**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	104	78-126	
1,2-Dichloroethane-d4	112	75-135	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: EAA 27122			Page 3 of 60

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-05-0402-2-B**	**05/05/15 22:20**	**Aqueous**	**GC/MS O**	**05/13/15**	**05/13/15 19:28**	**150513L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	80-120	
Dibromofluoromethane	97	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: EAA 27122			Page 5 of 60

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-05-0402-3-B**	**05/05/15 22:11**	**Aqueous**	**GC/MS O**	**05/13/15**	**05/13/15 23:01**	**150513L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	105	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-05-0402-4-B**	**05/05/15 22:49**	**Aqueous**	**GC/MS O**	**05/13/15**	**05/13/15 23:31**	**150513L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	100	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: EAA 27122			Page 9 of 60

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-05-0402-5-B**	**05/05/15 22:27**	**Aqueous**	**GC/MS O**	**05/13/15**	**05/14/15 00:02**	**150513L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	80-120	
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: EAA 27122			Page 11 of 60

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-05-0402-6-B**	**05/05/15 22:46**	**Aqueous**	**GC/MS O**	**05/13/15**	**05/14/15 00:32**	**150513L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	97	78-126	
1,2-Dichloroethane-d4	105	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-05-0402-7-B**	**05/05/15 23:06**	**Aqueous**	**GC/MS O**	**05/13/15**	**05/14/15 01:03**	**150513L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	98	78-126	
1,2-Dichloroethane-d4	106	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-05-0402-8-B**	**05/05/15 23:24**	**Aqueous**	**GC/MS O**	**05/13/15**	**05/14/15 01:33**	**150513L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	106	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-05-0402-9-B**	**05/05/15 23:35**	**Aqueous**	**GC/MS O**	**05/13/15**	**05/14/15 02:03**	**150513L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	107	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: EAA 27122			Page 19 of 60

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-05-0402-10-B**	**05/05/15 22:11**	**Aqueous**	**GC/MS O**	**05/13/15**	**05/14/15 02:34**	**150513L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	80-120	
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	106	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-05-0402-11-B**	**05/06/15 00:05**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 01:56**	**150515L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	91	78-126	
1,2-Dichloroethane-d4	100	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Peak	**15-05-0402-12-B**	**05/05/15 23:30**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 03:58**	**150515L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	91	78-126	
1,2-Dichloroethane-d4	99	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-05-0402-13-B**	**05/05/15 23:49**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 04:28**	**150515L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	90	78-126	
1,2-Dichloroethane-d4	99	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-05-0402-14-B**	**05/06/15 00:06**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 04:58**	**150515L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	91	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB06	**15-05-0402-15-A**	**05/06/15 10:11**	**Aqueous**	**GC/MS RR**	**05/18/15**	**05/18/15 19:28**	**150518L017**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	104	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: EAA 27122			Page 31 of 60

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-05-0402-16-B**	**05/06/15 01:30**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 05:29**	**150515L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	0.18	1.0	0.16	1.00	J
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	90	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-05-0402-17-B**	**05/06/15 02:15**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 05:59**	**150515L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	91	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-05-0402-18-B**	**05/06/15 02:40**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 06:29**	**150515L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	88	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: EAA 27122			Page 37 of 60

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-05-0402-19-B**	**05/06/15 03:05**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 06:59**	**150515L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	90	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: EAA 27122			Page 39 of 60

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-05-0402-20-B**	**05/06/15 03:58**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 07:29**	**150515L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	89	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-05-0402-21-B**	**05/06/15 04:20**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 08:00**	**150515L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	91	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-05-0402-22-A**	**05/06/15 04:40**	**Aqueous**	**GC/MS O**	**05/12/15**	**05/12/15 22:51**	**150512L041**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	80-120	
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-05-0402-23-A**	**05/06/15 01:30**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 08:30**	**150515L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	90	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-05-0402-24-A**	**05/06/15 02:15**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 09:00**	**150515L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	94	78-126	
1,2-Dichloroethane-d4	106	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-05-0402-25-A**	**05/06/15 02:40**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 09:30**	**150515L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	91	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-17134**	**N/A**	**Aqueous**	**GC/MS BB**	**05/09/15**	**05/09/15 12:13**	**150509L027**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	103	78-126	
1,2-Dichloroethane-d4	110	75-135	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-17133**	**N/A**	**Aqueous**	**GC/MS O**	**05/12/15**	**05/12/15 22:22**	**150512L041**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	80-120	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	99	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-17137**	**N/A**	**Aqueous**	**GC/MS O**	**05/13/15**	**05/13/15 16:47**	**150513L015**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	95	78-126	
1,2-Dichloroethane-d4	99	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-17160**	**N/A**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 01:26**	**150515L039**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	
Dibromofluoromethane	95	78-126	
1,2-Dichloroethane-d4	100	75-135	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-17170**	**N/A**	**Aqueous**	**GC/MS RR**	**05/18/15**	**05/18/15 14:01**	**150518L017**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	80-120	
Dibromofluoromethane	104	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 210 Lead	**15-05-0402-1**	**05/05/15 22:10**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	257	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	257	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	595	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	3.3	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.48	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.56	0.50	0.28	1.00		mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	2.7	0.50	0.24	1.00		mg/L	05/29/15	05/30/15	SM 5310 B
Carbon, Dissolved Organic (24)	4.6	0.50	0.24	1.00		mg/L	05/13/15	05/14/15	SM 5310 B

HSM 230 Lead	**15-05-0402-2**	**05/05/15 22:20**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.031	0.050	0.020	1.00	J	mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	199	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	199	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	215	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	45	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.46	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	1.1	0.50	0.28	1.00		mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	6.6	0.50	0.24	1.00		mg/L	05/22/15	05/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	8.8	2.5	1.2	5.00		mg/L	05/13/15	05/14/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 231 Lead	**15-05-0402-3**	**05/05/15 22:11**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.038	0.050	0.020	1.00	J	mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	253	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	253	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	350	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	8.2	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.48	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.40	0.50	0.28	1.00	J	mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	5.4	0.50	0.24	1.00		mg/L	05/22/15	05/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	2.2	0.50	0.24	1.00		mg/L	05/13/15	05/14/15	SM 5310 B

HSM 240 Lead	**15-05-0402-4**	**05/05/15 22:49**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.11	0.050	0.020	1.00		mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	174	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	174	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	210	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	377	1.00	0.829	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.59	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	1.1	0.50	0.28	1.00		mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	5.8	0.50	0.24	1.00		mg/L	05/22/15	05/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	7.2	2.5	1.2	5.00		mg/L	05/13/15	05/14/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 250 Lead	**15-05-0402-5**	**05/05/15 22:27**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.035	0.050	0.020	1.00	J	mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	238	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	238	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	320	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	8.9	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.46	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	1.0	0.50	0.24	1.00		mg/L	05/22/15	05/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	2.0	0.50	0.24	1.00		mg/L	05/13/15	05/14/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 260 Lead	**15-05-0402-6**	**05/05/15 22:46**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.026	0.050	0.020	1.00	J	mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	239	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	239	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	375	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	12	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.63	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.56	0.50	0.28	1.00		mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	1.6	0.50	0.24	1.00		mg/L	05/22/15	05/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	2.0	0.50	0.24	1.00		mg/L	05/13/15	05/14/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 270 Lead	**15-05-0402-7**	**05/05/15 23:06**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.033	0.050	0.020	1.00	J	mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	238	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	238	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	385	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	20	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.75	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.56	0.50	0.28	1.00		mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	2.1	0.50	0.24	1.00		mg/L	05/22/15	05/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	1.9	0.50	0.24	1.00		mg/L	05/13/15	05/14/15	SM 5310 B

HSM 210 Peak	**15-05-0402-8**	**05/05/15 23:24**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	242	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	242	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	360	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	1.4	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.58	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.84	0.50	0.28	1.00		mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	2.6	0.50	0.24	1.00		mg/L	05/22/15	05/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	3.5	0.50	0.24	1.00		mg/L	05/13/15	05/14/15	SM 5310 B

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 230 Peak	**15-05-0402-9**	**05/05/15 23:35**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.062	0.050	0.020	1.00		mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	190	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	190	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	330	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	13	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.44	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.70	0.50	0.28	1.00		mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	4.1	0.50	0.24	1.00		mg/L	05/22/15	05/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	5.4	2.5	1.2	5.00		mg/L	05/13/15	05/14/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 231 Peak	**15-05-0402-10**	**05/05/15 22:11**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	254	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	254	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	370	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	1.3	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.55	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.84	0.50	0.28	1.00		mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	0.30	0.50	0.24	1.00	J	mg/L	05/22/15	05/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	2.2	0.50	0.24	1.00		mg/L	05/13/15	05/14/15	SM 5310 B

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 240 Peak	**15-05-0402-11**	**05/06/15 00:05**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	249	5.00	0.848	1.00		mg/L	N/A	05/18/15	SM 2320B
Bicarbonate (as CaCO3) (24)	249	5.00	0.848	1.00		mg/L	N/A	05/18/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/18/15	SM 2320B
Solids, Total Dissolved (24)	365	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.56	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	5.7	0.50	0.24	1.00		mg/L	05/29/15	05/30/15	SM 5310 B
Carbon, Dissolved Organic (24)	3.7	0.50	0.24	1.00		mg/L	05/13/15	05/14/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 250 Peak	**15-05-0402-12**	**05/05/15 23:30**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.028	0.050	0.020	1.00	J	mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	236	5.00	0.848	1.00		mg/L	N/A	05/18/15	SM 2320B
Bicarbonate (as CaCO3) (24)	236	5.00	0.848	1.00		mg/L	N/A	05/18/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/18/15	SM 2320B
Solids, Total Dissolved (24)	360	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	4.3	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.54	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	4.8	0.50	0.24	1.00		mg/L	05/29/15	05/30/15	SM 5310 B
Carbon, Dissolved Organic (24)	3.9	0.50	0.24	1.00		mg/L	05/13/15	05/14/15	SM 5310 B

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 260 Peak	**15-05-0402-13**	**05/05/15 23:49**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.032	0.050	0.020	1.00	J	mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	227	5.00	0.848	1.00		mg/L	N/A	05/18/15	SM 2320B
Bicarbonate (as CaCO3) (24)	227	5.00	0.848	1.00		mg/L	N/A	05/18/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/18/15	SM 2320B
Solids, Total Dissolved (24)	350	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	13	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.68	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.70	0.50	0.28	1.00		mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	5.0	0.50	0.24	1.00		mg/L	05/29/15	05/30/15	SM 5310 B
Carbon, Dissolved Organic (24)	2.6	0.50	0.24	1.00		mg/L	05/13/15	05/14/15	SM 5310 B

HSM 270 Peak	**15-05-0402-14**	**05/06/15 00:06**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.042	0.050	0.020	1.00	J	mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	225	5.00	0.848	1.00		mg/L	N/A	05/18/15	SM 2320B
Bicarbonate (as CaCO3) (24)	225	5.00	0.848	1.00		mg/L	N/A	05/18/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/18/15	SM 2320B
Solids, Total Dissolved (24)	385	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	12	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.56	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	05/22/15	05/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	0.70	0.50	0.24	1.00		mg/L	05/13/15	05/14/15	SM 5310 B

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 210 Trail	**15-05-0402-16**	**05/06/15 01:30**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.054	0.050	0.020	1.00		mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	240	5.00	0.848	1.00		mg/L	N/A	05/18/15	SM 2320B
Bicarbonate (as CaCO3) (24)	240	5.00	0.848	1.00		mg/L	N/A	05/18/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/18/15	SM 2320B
Solids, Total Dissolved (24)	405	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	2.3	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.48	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.56	0.50	0.28	1.00		mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	0.46	0.50	0.24	1.00	J	mg/L	05/22/15	05/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	2.4	2.5	1.2	5.00	J	mg/L	05/13/15	05/14/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 230 Trail	**15-05-0402-17**	**05/06/15 02:15**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.045	0.050	0.020	1.00	J	mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	199	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	199	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	325	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	2.4	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.35	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.56	0.50	0.28	1.00		mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	3.2	0.50	0.24	1.00		mg/L	05/22/15	05/23/15	SM 5310 B
Carbon, Dissolved Organic (24)	2.6	0.50	0.24	1.00		mg/L	05/13/15	05/14/15	SM 5310 B

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 231 Trail	**15-05-0402-18**	**05/06/15 02:40**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	252	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	252	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	385	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	1.2	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.48	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.84	0.50	0.28	1.00		mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	4.0	0.50	0.24	1.00		mg/L	05/29/15	05/30/15	SM 5310 B
Carbon, Dissolved Organic (24)	5.0	2.5	1.2	5.00		mg/L	05/13/15	05/14/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 240 Trail	**15-05-0402-19**	**05/06/15 03:05**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	251	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	251	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	360	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	1.2	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.50	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	05/21/15	05/21/15	SM 4500 N Org B
Carbon, Total Organic (24)	3.1	0.50	0.24	1.00		mg/L	05/29/15	05/30/15	SM 5310 B
Carbon, Dissolved Organic (24)	7.0	2.5	1.2	5.00		mg/L	05/13/15	05/14/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 250 Trail	**15-05-0402-20**	**05/06/15 03:58**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	244	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	244	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	365	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	1.8	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.53	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	05/22/15	05/22/15	SM 4500 N Org B
Carbon, Total Organic (24)	3.8	0.50	0.24	1.00		mg/L	05/29/15	05/30/15	SM 5310 B
Carbon, Dissolved Organic (24)	2.4	0.50	0.24	1.00		mg/L	05/13/15	05/14/15	SM 5310 B

HSM 260 Trail	**15-05-0402-21**	**05/06/15 04:20**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	242	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	242	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	295	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	4.3	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.61	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.56	0.50	0.28	1.00		mg/L	05/22/15	05/22/15	SM 4500 N Org B
Carbon, Total Organic (24)	4.5	0.50	0.24	1.00		mg/L	05/29/15	05/30/15	SM 5310 B
Carbon, Dissolved Organic (24)	6.5	0.50	0.24	1.00		mg/L	05/13/15	05/14/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 270 Trail	**15-05-0402-22**	**05/06/15 04:40**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	241	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	241	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	305	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	3.6	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.70	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	05/22/15	05/22/15	SM 4500 N Org B
Carbon, Total Organic (24)	0.30	0.50	0.24	1.00	J	mg/L	05/26/15	05/26/15	SM 5310 B
Carbon, Dissolved Organic (24)	ND	2.5	1.2	5.00		mg/L	05/13/15	05/14/15	SM 5310 B

FDHSM 210 Trail	**15-05-0402-23**	**05/06/15 01:30**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	256	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	256	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	340	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	3.8	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.47	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.56	0.50	0.28	1.00		mg/L	05/22/15	05/22/15	SM 4500 N Org B
Carbon, Total Organic (24)	3.0	0.50	0.24	1.00		mg/L	05/26/15	05/26/15	SM 5310 B
Carbon, Dissolved Organic (24)	3.0	2.5	1.2	5.00		mg/L	05/13/15	05/14/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
FDHSM 230 Trail	**15-05-0402-24**	**05/06/15 02:15**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.029	0.050	0.020	1.00	J	mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	198	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	198	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	200	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	3.3	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.48	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.56	0.50	0.28	1.00		mg/L	05/22/15	05/22/15	SM 4500 N Org B
Carbon, Total Organic (24)	4.0	0.50	0.24	1.00		mg/L	05/29/15	05/30/15	SM 5310 B
Carbon, Dissolved Organic (24)	6.6	2.5	1.2	5.00		mg/L	05/13/15	05/14/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
FDHSM 231 Trail	**15-05-0402-25**	**05/06/15 02:40**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.042	0.050	0.020	1.00	J	mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	255	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	255	5.00	0.848	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Solids, Total Dissolved (24)	255	1.00	0.870	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
pH (24)	7.52	0.01	0.01	1.00	BV,BU	pH units	N/A	05/07/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.56	0.50	0.28	1.00		mg/L	05/22/15	05/22/15	SM 4500 N Org B
Carbon, Total Organic (24)	2.5	0.50	0.24	1.00		mg/L	05/29/15	05/30/15	SM 5310 B
Carbon, Dissolved Organic (24)	3.0	2.5	1.2	5.00		mg/L	05/13/15	05/14/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
Method Blank		**N/A**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	05/20/15	EPA 365.1
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	05/20/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/18/15	SM 2320B
Bicarbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Bicarbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/18/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/19/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	05/18/15	SM 2320B
Solids, Total Dissolved (24)	ND	1.0	0.87	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Dissolved (24)	ND	1.0	0.87	1.00		mg/L	05/12/15	05/12/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	05/08/15	05/08/15	SM 2540 D
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	05/21/15	05/21/15	SM 4500 N Org B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	05/22/15	05/22/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	05/29/15	05/30/15	SM 5310 B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	05/22/15	05/23/15	SM 5310 B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	05/26/15	05/26/15	SM 5310 B
Carbon, Dissolved Organic (24)	ND	0.50	0.24	1.00		mg/L	05/13/15	05/14/15	SM 5310 B
Carbon, Dissolved Organic (24)	ND	0.50	0.24	1.00		mg/L	05/13/15	05/14/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: EPA 300.0

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-05-0429-3	**Sample**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 13:55**	**150507S01**
15-05-0429-3	**Matrix Spike**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 14:12**	**150507S01**
15-05-0429-3	**Matrix Spike Duplicate**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 14:29**	**150507S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Fluoride	0.1893	250.0	213.5	85	214.3	86	80-120	0	0-20	
Chloride	36.27	5000	4509	89	4502	89	80-120	0	0-20	
Bromide	ND	500.0	452.6	91	452.4	90	80-120	0	0-20	
Nitrate (as N)	ND	500.0	446.1	89	445.2	89	80-120	0	0-20	
Sulfate	227.2	5000	4575	87	4558	87	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: EPA 300.0

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-05-0447-1	**Sample**	**Aqueous**	**IC 15**	**N/A**	**05/08/15 01:00**	**150507S02**
15-05-0447-1	**Matrix Spike**	**Aqueous**	**IC 15**	**N/A**	**05/08/15 01:34**	**150507S02**
15-05-0447-1	**Matrix Spike Duplicate**	**Aqueous**	**IC 15**	**N/A**	**05/08/15 01:53**	**150507S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Fluoride	0.3060	250.0	237.8	95	236.4	94	80-120	1	0-20	
Chloride	138.3	5000	5122	100	5135	100	80-120	0	0-20	
Bromide	0.6960	500.0	498.4	100	499.1	100	80-120	0	0-20	
Nitrate (as N)	ND	500.0	493.4	99	494.4	99	80-120	0	0-20	
Sulfate	273.5	5000	5161	98	5162	98	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 210 Lead	**Sample**	**Aqueous**	**ACA 1**	**N/A**	**05/20/15 19:29**	**150520S01**
HSM 210 Lead	**Matrix Spike**	**Aqueous**	**ACA 1**	**N/A**	**05/20/15 19:29**	**150520S01**
HSM 210 Lead	**Matrix Spike Duplicate**	**Aqueous**	**ACA 1**	**N/A**	**05/20/15 19:29**	**150520S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	ND	0.2000	0.1598	80	0.1607	80	90-110	1	0-25	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
FDHSM 210 Trail	**Sample**	**Aqueous**	**ACA 1**	**N/A**	**05/20/15 19:29**	**150520S02**
FDHSM 210 Trail	**Matrix Spike**	**Aqueous**	**ACA 1**	**N/A**	**05/20/15 19:29**	**150520S02**
FDHSM 210 Trail	**Matrix Spike Duplicate**	**Aqueous**	**ACA 1**	**N/A**	**05/20/15 19:29**	**150520S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	ND	0.2000	0.1963	98	0.1981	99	90-110	1	0-25	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 210 Lead	**Sample**	**Aqueous**	**TOC 8**	**05/22/15**	**05/23/15 06:08**	**F0522TOCS1**
HSM 210 Lead	**Matrix Spike**	**Aqueous**	**TOC 8**	**05/22/15**	**05/23/15 06:08**	**F0522TOCS1**
HSM 210 Lead	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**05/22/15**	**05/23/15 06:08**	**F0522TOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	1.550	10.00	10.30	88	10.30	88	31-145	0	0-23	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 270 Trail	**Sample**	**Aqueous**	**TOC 8**	**05/26/15**	**05/26/15 22:23**	**F0526TOCS1**
HSM 270 Trail	**Matrix Spike**	**Aqueous**	**TOC 8**	**05/26/15**	**05/26/15 22:23**	**F0526TOCS1**
HSM 270 Trail	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**05/26/15**	**05/26/15 22:23**	**F0526TOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	ND	10.00	9.860	99	9.620	96	31-145	2	0-23	

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Quality Control - Spike/Spike Duplicate

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Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 260 Trail	**Sample**	**Aqueous**	**TOC 8**	**05/29/15**	**05/30/15 06:47**	**F0529TOCS1**
HSM 260 Trail	**Matrix Spike**	**Aqueous**	**TOC 8**	**05/29/15**	**05/30/15 06:47**	**F0529TOCS1**
HSM 260 Trail	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**05/29/15**	**05/30/15 06:47**	**F0529TOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	4.520	10.00	12.00	75	11.70	72	31-145	3	0-23	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 210 Lead	**Sample**	**Aqueous**	**TOC 8**	**05/13/15**	**05/14/15 14:53**	**F0513DOCS1**
HSM 210 Lead	**Matrix Spike**	**Aqueous**	**TOC 8**	**05/13/15**	**05/14/15 14:53**	**F0513DOCS1**
HSM 210 Lead	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**05/13/15**	**05/14/15 14:53**	**F0513DOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	4.550	10.00	15.40	108	12.70	82	31-145	19	0-25	

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Quality Control - Spike/Spike Duplicate

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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 270 Trail	**Sample**	**Aqueous**	**TOC 8**	**05/13/15**	**05/14/15 19:49**	**F0513DOCS2**
HSM 270 Trail	**Matrix Spike**	**Aqueous**	**TOC 8**	**05/13/15**	**05/14/15 19:49**	**F0513DOCS2**
HSM 270 Trail	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**05/13/15**	**05/14/15 19:49**	**F0513DOCS2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	ND	50.00	47.85	96	49.40	99	31-145	3	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B
Project: EAA 27122			Page 10 of 22

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 230 Lead	**Sample**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:18**	**150507SA5**
HSM 230 Lead	**Matrix Spike**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:10**	**150507SA5**
HSM 230 Lead	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:12**	**150507SA5**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Calcium	40.10	0.5000	40.38	4X	39.93	4X	77-113	4X	0-11	Q
Magnesium	4.765	0.5000	5.412	4X	5.374	4X	56-140	4X	0-11	Q
Potassium	3.242	5.000	8.754	110	8.797	111	83-131	0	0-7	
Sodium	6.322	5.000	11.32	100	11.32	100	73-127	0	0-9	
Strontium	0.1609	0.5000	0.7410	116	0.7278	113	81-123	2	0-6	
Silicon	2.013	0.5000	2.755	4X	2.729	4X	24-180	4X	0-15	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B
Project: EAA 27122			Page 11 of 22

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
FDHSM 230 Trail	**Sample**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/08/15 19:05**	**150507SA6**
FDHSM 230 Trail	**Matrix Spike**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/08/15 19:07**	**150507SA6**
FDHSM 230 Trail	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/08/15 19:08**	**150507SA6**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Calcium	86.76	0.5000	95.63	4X	95.81	4X	77-113	4X	0-11	Q
Magnesium	12.49	0.5000	12.53	4X	12.82	4X	56-140	4X	0-11	Q
Potassium	2.048	5.000	7.081	101	7.262	104	83-131	3	0-7	
Sodium	12.91	5.000	18.80	118	19.16	125	73-127	2	0-9	
Strontium	0.4114	0.5000	1.123	142	1.146	147	81-123	2	0-6	3
Silicon	4.108	0.5000	4.995	4X	4.993	4X	24-180	4X	0-15	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 210 Lead	**Sample**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/11/15 21:21**	**150507SA4**
HSM 210 Lead	**Matrix Spike**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/11/15 21:01**	**150507SA4**
HSM 210 Lead	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/11/15 21:05**	**150507SA4**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.1000	0.08492	85	0.09805	98	85-133	14	0-11	4
Arsenic	0.001117	0.1000	0.08380	83	0.09547	94	73-127	13	0-11	4
Barium	0.03955	0.1000	0.1432	104	0.1439	104	74-128	0	0-10	
Beryllium	ND	0.1000	0.08334	83	0.09752	98	56-122	16	0-11	4
Cadmium	ND	0.1000	0.08112	81	0.09400	94	84-114	15	0-8	3,4
Chromium	ND	0.1000	0.08843	88	0.1017	102	73-133	14	0-11	4
Copper	ND	0.1000	0.08288	83	0.09533	95	72-108	14	0-10	4
Lead	ND	0.1000	0.08491	85	0.09705	97	79-121	13	0-10	4
Nickel	0.002058	0.1000	0.07987	78	0.09155	89	68-122	14	0-10	4
Selenium	ND	0.1000	0.07557	76	0.08794	88	59-125	15	0-12	4
Silver	ND	0.05000	0.05111	102	0.05106	102	68-128	0	0-14	
Thallium	ND	0.1000	0.08391	84	0.09678	97	73-121	14	0-11	4
Zinc	0.01170	0.1000	0.1451	133	0.09586	84	43-145	41	0-39	4
Aluminum	ND	0.1000	0.1150	115	0.1112	111	47-161	3	0-24	
Iron	0.05564	5.100	5.569	108	5.532	107	27-201	1	0-24	
Manganese	0.01498	0.1000	0.09788	83	0.1084	93	72-126	10	0-42	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
FDHSM 210 Trail	**Sample**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/12/15 00:48**	**150507SA6**
FDHSM 210 Trail	**Matrix Spike**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/12/15 18:07**	**150507SA6**
FDHSM 210 Trail	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/12/15 18:11**	**150507SA6**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.1000	0.08691	87	0.08237	82	85-133	5	0-11	3
Arsenic	0.001241	0.1000	0.07790	77	0.07358	72	73-127	6	0-11	3
Barium	0.03968	0.1000	0.1330	93	0.1396	100	74-128	5	0-10	
Beryllium	ND	0.1000	0.09143	91	0.08651	87	56-122	6	0-11	
Cadmium	ND	0.1000	0.08438	84	0.08011	80	84-114	5	0-8	3
Chromium	ND	0.1000	0.09848	98	0.09234	92	73-133	6	0-11	
Copper	ND	0.1000	0.08187	82	0.07770	78	72-108	5	0-10	
Lead	ND	0.1000	0.08843	88	0.08335	83	79-121	6	0-10	
Nickel	0.002068	0.1000	0.08273	81	0.07959	78	68-122	4	0-10	
Selenium	ND	0.1000	0.07382	74	0.06980	70	59-125	6	0-12	
Silver	ND	0.05000	0.04911	98	0.05238	105	68-128	6	0-14	
Thallium	ND	0.1000	0.08732	87	0.08291	83	73-121	5	0-11	
Zinc	0.01100	0.1000	0.1004	89	0.1033	92	43-145	3	0-39	
Aluminum	ND	0.1000	0.1175	118	0.1270	127	47-161	8	0-24	
Iron	0.07078	5.100	5.429	105	5.660	110	27-201	4	0-24	
Manganese	0.02035	0.1000	0.1065	86	0.1042	84	72-126	2	0-42	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A
Project: EAA 27122			Page 14 of 22

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 231 Lead	**Sample**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:22**	**150511S04**
HSM 231 Lead	**Matrix Spike**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:04**	**150511S04**
HSM 231 Lead	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:07**	**150511S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.009775	98	0.01015	101	57-141	4	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

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Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 7470A Filt.
Method: EPA 7470A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
FDHSM 231 Trail	**Sample**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 19:19**	**150511S05**
FDHSM 231 Trail	**Matrix Spike**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:09**	**150511S05**
FDHSM 231 Trail	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:11**	**150511S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.009875	99	0.009661	97	57-141	2	0-10	

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Quality Control - Spike/Spike Duplicate

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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 231 Lead	**Sample**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 18:33**	**150512S21**
HSM 231 Lead	**Matrix Spike**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 12:44**	**150512S21**
HSM 231 Lead	**Matrix Spike Duplicate**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 12:52**	**150512S21**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Caffeine	368.8	100.0	472.7	104	451.5	83	70-130	5	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

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Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 1694
Method: EPA 1694 (M) Caffeine
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 260 Trail	**Sample**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 15:59**	**150512S22**
HSM 260 Trail	**Matrix Spike**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 13:00**	**150512S22**
HSM 260 Trail	**Matrix Spike Duplicate**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 13:10**	**150512S22**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Caffeine	109.8	100.0	220.3	111	217.0	107	70-130	2	0-20	

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Quality Control - Spike/Spike Duplicate

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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 270 Trail	**Sample**	**Aqueous**	**GC/MS O**	**05/12/15**	**05/12/15 22:51**	**150512S028**
HSM 270 Trail	**Matrix Spike**	**Aqueous**	**GC/MS O**	**05/12/15**	**05/12/15 23:19**	**150512S028**
HSM 270 Trail	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS O**	**05/12/15**	**05/12/15 23:48**	**150512S028**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	50.76	102	51.42	103	74-122	1	0-21	
Carbon Tetrachloride	ND	50.00	53.96	108	53.80	108	60-144	0	0-21	
Chlorobenzene	ND	50.00	50.28	101	51.48	103	73-120	2	0-22	
1,2-Dibromoethane	ND	50.00	54.84	110	56.27	113	80-122	3	0-20	
1,2-Dichlorobenzene	ND	50.00	48.10	96	48.92	98	70-120	2	0-26	
1,2-Dichloroethane	ND	50.00	51.37	103	52.16	104	64-142	2	0-20	
1,1-Dichloroethene	ND	50.00	52.74	105	47.94	96	52-136	10	0-21	
Ethylbenzene	ND	50.00	51.92	104	53.23	106	77-125	2	0-24	
Toluene	ND	50.00	50.94	102	51.50	103	72-126	1	0-23	
Trichloroethene	ND	50.00	51.34	103	51.73	103	74-128	1	0-22	
Vinyl Chloride	ND	50.00	44.53	89	45.74	91	67-133	3	0-20	
p/m-Xylene	ND	100.0	98.21	98	101.9	102	63-129	4	0-25	
o-Xylene	ND	50.00	48.02	96	49.41	99	62-128	3	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	48.56	97	45.55	91	68-134	6	0-21	

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Quality Control - Spike/Spike Duplicate

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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 230 Lead	**Sample**	**Aqueous**	**GC/MS O**	**05/13/15**	**05/13/15 19:28**	**150513S010**
HSM 230 Lead	**Matrix Spike**	**Aqueous**	**GC/MS O**	**05/13/15**	**05/13/15 20:59**	**150513S010**
HSM 230 Lead	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS O**	**05/13/15**	**05/13/15 21:30**	**150513S010**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	49.21	98	47.55	95	74-122	3	0-21	
Carbon Tetrachloride	ND	50.00	46.45	93	45.18	90	60-144	3	0-21	
Chlorobenzene	ND	50.00	48.30	97	46.78	94	73-120	3	0-22	
1,2-Dibromoethane	ND	50.00	49.66	99	49.74	99	80-122	0	0-20	
1,2-Dichlorobenzene	ND	50.00	45.24	90	45.32	91	70-120	0	0-26	
1,2-Dichloroethane	ND	50.00	50.29	101	48.37	97	64-142	4	0-20	
1,1-Dichloroethene	ND	50.00	48.70	97	48.57	97	52-136	0	0-21	
Ethylbenzene	ND	50.00	49.53	99	47.73	95	77-125	4	0-24	
Toluene	ND	50.00	49.38	99	47.94	96	72-126	3	0-23	
Trichloroethene	ND	50.00	48.52	97	47.09	94	74-128	3	0-22	
Vinyl Chloride	ND	50.00	48.54	97	47.98	96	67-133	1	0-20	
p/m-Xylene	ND	100.0	96.10	96	93.30	93	63-129	3	0-25	
o-Xylene	ND	50.00	46.77	94	45.20	90	62-128	3	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	45.92	92	43.06	86	68-134	6	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 240 Peak	**Sample**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 01:56**	**150515S020**
HSM 240 Peak	**Matrix Spike**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 02:27**	**150515S020**
HSM 240 Peak	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 02:57**	**150515S020**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	47.47	95	49.71	99	74-122	5	0-21	
Carbon Tetrachloride	ND	50.00	38.29	77	43.77	88	60-144	13	0-21	
Chlorobenzene	ND	50.00	47.62	95	49.36	99	73-120	4	0-22	
1,2-Dibromoethane	ND	50.00	50.63	101	52.62	105	80-122	4	0-20	
1,2-Dichlorobenzene	ND	50.00	46.15	92	47.55	95	70-120	3	0-26	
1,2-Dichloroethane	ND	50.00	48.39	97	51.34	103	64-142	6	0-20	
1,1-Dichloroethene	ND	50.00	38.27	77	47.48	95	52-136	21	0-21	
Ethylbenzene	ND	50.00	48.80	98	49.85	100	77-125	2	0-24	
Toluene	ND	50.00	47.48	95	49.95	100	72-126	5	0-23	
Trichloroethene	ND	50.00	47.61	95	50.23	100	74-128	5	0-22	
Vinyl Chloride	ND	50.00	37.72	75	40.64	81	67-133	7	0-20	
p/m-Xylene	ND	100.0	94.43	94	97.36	97	63-129	3	0-25	
o-Xylene	ND	50.00	46.09	92	47.31	95	62-128	3	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	33.89	68	43.46	87	68-134	25	0-21	4

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 210 Lead	**Sample**	**Aqueous**	**GC/MS BB**	**05/09/15**	**05/09/15 14:27**	**150509S015**
HSM 210 Lead	**Matrix Spike**	**Aqueous**	**GC/MS BB**	**05/09/15**	**05/09/15 15:53**	**150509S015**
HSM 210 Lead	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS BB**	**05/09/15**	**05/09/15 16:21**	**150509S015**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	40.01	80	40.03	80	74-122	0	0-21	
Carbon Tetrachloride	ND	50.00	39.36	79	39.30	79	60-144	0	0-21	
Chlorobenzene	ND	50.00	43.11	86	43.28	87	73-120	0	0-22	
1,2-Dibromoethane	ND	50.00	44.30	89	45.68	91	80-122	3	0-20	
1,2-Dichlorobenzene	ND	50.00	46.20	92	46.62	93	70-120	1	0-26	
1,2-Dichloroethane	ND	50.00	44.51	89	46.06	92	64-142	3	0-20	
1,1-Dichloroethene	ND	50.00	38.61	77	39.69	79	52-136	3	0-21	
Ethylbenzene	ND	50.00	42.74	85	42.75	86	77-125	0	0-24	
Toluene	ND	50.00	40.92	82	41.74	83	72-126	2	0-23	
Trichloroethene	ND	50.00	39.65	79	39.53	79	74-128	0	0-22	
Vinyl Chloride	ND	50.00	48.42	97	49.52	99	67-133	2	0-20	
p/m-Xylene	ND	100.0	88.69	89	88.97	89	63-129	0	0-25	
o-Xylene	ND	50.00	46.86	94	47.12	94	62-128	1	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	45.07	90	46.50	93	68-134	3	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-05-0849-3	**Sample**	**Aqueous**	**GC/MS RR**	**05/18/15**	**05/18/15 14:28**	**150518S007**
15-05-0849-3	**Matrix Spike**	**Aqueous**	**GC/MS RR**	**05/18/15**	**05/18/15 12:12**	**150518S007**
15-05-0849-3	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS RR**	**05/18/15**	**05/18/15 12:39**	**150518S007**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	51.38	103	57.63	115	74-122	11	0-21	
Carbon Tetrachloride	ND	50.00	70.81	142	77.43	155	60-144	9	0-21	3
Chlorobenzene	ND	50.00	52.96	106	59.71	119	73-120	12	0-22	
1,2-Dibromoethane	ND	50.00	50.21	100	57.78	116	80-122	14	0-20	
1,2-Dichlorobenzene	ND	50.00	53.12	106	59.04	118	70-120	11	0-26	
1,2-Dichloroethane	ND	50.00	49.87	100	57.32	115	64-142	14	0-20	
1,1-Dichloroethene	ND	50.00	63.51	127	69.55	139	52-136	9	0-21	3
Ethylbenzene	ND	50.00	52.99	106	58.60	117	77-125	10	0-24	
Toluene	ND	50.00	51.46	103	58.25	116	72-126	12	0-23	
Trichloroethene	1.321	50.00	50.72	99	55.61	109	74-128	9	0-22	
Vinyl Chloride	ND	50.00	48.73	97	52.08	104	67-133	7	0-20	
p/m-Xylene	ND	100.0	107.7	108	120.4	120	63-129	11	0-25	
o-Xylene	ND	50.00	53.87	108	60.42	121	62-128	11	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	52.41	105	61.14	122	68-134	15	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
HSM 210 Lead	**Sample**	**Aqueous**	**ICP/MS 04**	**05/07/15 00:00**	**05/11/15 21:21**	**150507SA4**
HSM 210 Lead	**PDS**	**Aqueous**	**ICP/MS 04**	**05/07/15 00:00**	**05/11/15 21:09**	**150507SA4**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Antimony	ND	0.1000	0.1035	103	75-125	
Arsenic	0.001117	0.1000	0.1029	102	75-125	
Barium	0.03955	0.1000	0.1414	102	75-125	
Beryllium	ND	0.1000	0.1056	106	75-125	
Cadmium	ND	0.1000	0.09975	100	75-125	
Chromium	ND	0.1000	0.1093	109	75-125	
Copper	ND	0.1000	0.1029	103	75-125	
Lead	ND	0.1000	0.1043	104	75-125	
Nickel	0.002058	0.1000	0.09701	95	75-125	
Selenium	ND	0.1000	0.09147	91	75-125	
Silver	ND	0.05000	0.04678	94	75-125	
Thallium	ND	0.1000	0.1024	102	75-125	
Zinc	0.01170	0.1000	0.1069	95	75-125	
Aluminum	ND	0.1000	0.1158	116	75-125	
Iron	0.05564	5.100	5.275	102	75-125	
Manganese	0.01498	0.1000	0.1143	99	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3005A Filt.
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
FDHSM 210 Trail	**Sample**	**Aqueous**	**ICP/MS 04**	**05/07/15 00:00**	**05/12/15 00:48**	**150507SA6**
FDHSM 210 Trail	**PDS**	**Aqueous**	**ICP/MS 04**	**05/07/15 00:00**	**05/12/15 00:36**	**150507SA6**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Antimony	ND	0.1000	0.1052	105	75-125	
Arsenic	0.001241	0.1000	0.1029	102	75-125	
Barium	0.03968	0.1000	0.1449	105	75-125	
Beryllium	ND	0.1000	0.1190	119	75-125	
Cadmium	ND	0.1000	0.1033	103	75-125	
Chromium	ND	0.1000	0.1113	111	75-125	
Copper	ND	0.1000	0.1045	105	75-125	
Lead	ND	0.1000	0.1062	106	75-125	
Nickel	0.002068	0.1000	0.09876	97	75-125	
Selenium	ND	0.1000	0.08735	87	75-125	
Silver	ND	0.05000	0.04823	96	75-125	
Thallium	ND	0.1000	0.1039	104	75-125	
Zinc	0.01100	0.1000	0.1063	95	75-125	
Aluminum	ND	0.1000	0.1223	122	75-125	
Iron	0.07078	5.100	5.518	107	75-125	
Manganese	0.02035	0.1000	0.1221	102	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM 240 Peak	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**05/18/15 20:05**	**F0518ALKD4**
HSM 240 Peak	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**05/18/15 20:05**	**F0518ALKD4**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	249.0	249.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM 210 Lead	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**05/19/15 17:17**	**F0519ALKD1**
HSM 210 Lead	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**05/19/15 17:17**	**F0519ALKD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	257.0	256.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM 240 Peak	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**05/18/15 20:05**	**F0518HCOD4**
HSM 240 Peak	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**05/18/15 20:05**	**F0518HCOD4**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Bicarbonate (as CaCO3)	249.0	249.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM 210 Lead	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**05/19/15 17:17**	**F0519HCOD1**
HSM 210 Lead	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**05/19/15 17:17**	**F0519HCOD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Bicarbonate (as CaCO3)	257.0	256.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM 240 Peak	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**05/18/15 20:05**	**F0518CO3D4**
HSM 240 Peak	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**05/18/15 20:05**	**F0518CO3D4**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Carbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM 210 Lead	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**05/19/15 17:17**	**F0519CO3D1**
HSM 210 Lead	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**05/19/15 17:17**	**F0519CO3D1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Carbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-05-0399-3	**Sample**	**Aqueous**	**SC 2**	**05/12/15 00:00**	**05/12/15 17:00**	**F0512TDSD1**
15-05-0399-3	**Sample Duplicate**	**Aqueous**	**SC 2**	**05/12/15 00:00**	**05/12/15 17:00**	**F0512TDSD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	12760	12280	4	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM 210 Lead	**Sample**	**Aqueous**	**SC 2**	**05/12/15 00:00**	**05/12/15 18:00**	**F0512TDSD3**
HSM 210 Lead	**Sample Duplicate**	**Aqueous**	**SC 2**	**05/12/15 00:00**	**05/12/15 18:00**	**F0512TDSD3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	595.0	611.0	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM 240 Lead	**Sample**	**Aqueous**	**N/A**	**05/08/15 00:00**	**05/08/15 18:00**	**F0508TSSD3**
HSM 240 Lead	**Sample Duplicate**	**Aqueous**	**N/A**	**05/08/15 00:00**	**05/08/15 18:00**	**F0508TSSD3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Suspended	376.6	377.0	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 4500 H+ B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-05-0399-3	**Sample**	**Aqueous**	**PH 1**	**N/A**	**05/07/15 15:07**	**F0507PHD1**
15-05-0399-3	**Sample Duplicate**	**Aqueous**	**PH 1**	**N/A**	**05/07/15 15:07**	**F0507PHD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	7.060	7.100	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 4500 H+ B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM 270 Peak	**Sample**	**Aqueous**	**PH 1**	**N/A**	**05/07/15 18:06**	**F0507PHD3**
HSM 270 Peak	**Sample Duplicate**	**Aqueous**	**PH 1**	**N/A**	**05/07/15 18:06**	**F0507PHD3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	7.560	7.580	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 4500 N Org B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM 240 Trail	**Sample**	**Aqueous**	**BUR05**	**05/21/15 00:00**	**05/21/15 16:00**	**F0521TKND1**
HSM 240 Trail	**Sample Duplicate**	**Aqueous**	**BUR05**	**05/21/15 00:00**	**05/21/15 16:00**	**F0521TKND1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Total Kjeldahl Nitrogen	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	N/A
		Method:	SM 4500 N Org B
Project: EAA 27122			Page 13 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
FDHSM 231 Trail	**Sample**	**Aqueous**	**BUR05**	**05/22/15 00:00**	**05/22/15 16:40**	**F0522TKND2**
FDHSM 231 Trail	**Sample Duplicate**	**Aqueous**	**BUR05**	**05/22/15 00:00**	**05/22/15 16:40**	**F0522TKND2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Total Kjeldahl Nitrogen	0.5600	0.5600	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: EPA 300.0

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-5739	**LCS**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 11:22**	**150507L01**
099-12-906-5739	**LCSD**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 11:39**	**150507L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Fluoride	2.500	2.432	97	2.443	98	90-110	0	0-15	
Chloride	50.00	49.78	100	49.92	100	90-110	0	0-15	
Bromide	5.000	4.982	100	5.001	100	90-110	0	0-15	
Nitrate (as N)	5.000	4.947	99	4.952	99	90-110	0	0-15	
Sulfate	50.00	49.25	99	49.44	99	90-110	0	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	N/A
		Method:	EPA 300.0
Project: EAA 27122			Page 2 of 38

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-906-5725	**LCS**	**Aqueous**	**IC 15**	**N/A**	**05/07/15 21:21**	**150507L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Fluoride	2.500	2.473	99	90-110	
Chloride	50.00	50.06	100	90-110	
Bromide	5.000	5.013	100	90-110	
Nitrate (as N)	5.000	4.966	99	90-110	
Sulfate	50.00	49.56	99	90-110	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-739-104	**LCS**	**Aqueous**	**ACA 1**	**N/A**	**05/20/15 19:29**	**150520L01**
099-12-739-104	**LCSD**	**Aqueous**	**ACA 1**	**N/A**	**05/20/15 19:29**	**150520L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.2000	0.2042	102	0.2061	103	90-110	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-739-105	**LCS**	**Aqueous**	**ACA 1**	**N/A**	**05/20/15 19:29**	**150520L02**
099-12-739-105	**LCSD**	**Aqueous**	**ACA 1**	**N/A**	**05/20/15 19:29**	**150520L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.2000	0.2012	101	0.2067	103	90-110	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 2320B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-859-708	**LCS**	**Aqueous**	**PH1/BUR03**	**N/A**	**05/18/15 20:05**	**F0518ALKB4**
099-15-859-708	**LCSD**	**Aqueous**	**PH1/BUR03**	**N/A**	**05/18/15 20:05**	**F0518ALKB4**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	100.0	98.00	98	98.00	98	80-120	0	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 2320B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-859-703	**LCS**	**Aqueous**	**PH1/BUR03**	**N/A**	**05/19/15 17:17**	**F0519ALKB1**
099-15-859-703	**LCSD**	**Aqueous**	**PH1/BUR03**	**N/A**	**05/19/15 17:17**	**F0519ALKB1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	100.0	98.00	98	98.00	98	80-120	0	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 2540 C
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-180-4569	**LCS**	**Aqueous**	**SC 2**	**05/12/15**	**05/12/15 17:00**	**F0512TDSL1**
099-12-180-4569	**LCSD**	**Aqueous**	**SC 2**	**05/12/15**	**05/12/15 17:00**	**F0512TDSL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100.0	95.00	95	90.00	90	80-120	5	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-180-4574	**LCS**	**Aqueous**	**SC 2**	**05/12/15**	**05/12/15 18:00**	**F0512TDSL3**
099-12-180-4574	**LCSD**	**Aqueous**	**SC 2**	**05/12/15**	**05/12/15 18:00**	**F0512TDSL3**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100.0	115.0	115	110.0	110	80-120	4	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 2540 D
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-010-7166	**LCS**	**Aqueous**	**N/A**	**05/08/15**	**05/08/15 17:00**	**F0508TSSL1**
099-09-010-7166	**LCSD**	**Aqueous**	**N/A**	**05/08/15**	**05/08/15 17:00**	**F0508TSSL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Suspended	100.0	93.00	93	92.00	92	80-120	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-010-7169	**LCS**	**Aqueous**	**N/A**	**05/08/15**	**05/08/15 18:00**	**F0508TSSL3**
099-09-010-7169	**LCSD**	**Aqueous**	**N/A**	**05/08/15**	**05/08/15 18:00**	**F0508TSSL3**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Suspended	100.0	88.00	88	89.00	89	80-120	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-5645	**LCS**	**Aqueous**	**TOC 8**	**05/22/15**	**05/23/15 06:08**	**F0522TOCL1**
099-05-097-5645	**LCSD**	**Aqueous**	**TOC 8**	**05/22/15**	**05/23/15 06:08**	**F0522TOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	10.00	9.470	95	9.930	99	80-120	5	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-5647	**LCS**	**Aqueous**	**TOC 8**	**05/26/15**	**05/26/15 22:23**	**F0526TOCL1**
099-05-097-5647	**LCSD**	**Aqueous**	**TOC 8**	**05/26/15**	**05/26/15 22:23**	**F0526TOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	10.00	9.140	91	9.530	95	80-120	4	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-5656	**LCS**	**Aqueous**	**TOC 8**	**05/29/15**	**05/30/15 06:47**	**F0529TOCL1**
099-05-097-5656	**LCSD**	**Aqueous**	**TOC 8**	**05/29/15**	**05/30/15 06:47**	**F0529TOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	10.00	9.410	94	9.720	97	80-120	3	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-115-1432	**LCS**	**Aqueous**	**TOC 8**	**05/13/15**	**05/14/15 14:53**	**F0513DOCL1**
099-05-115-1432	**LCSD**	**Aqueous**	**TOC 8**	**05/13/15**	**05/14/15 14:53**	**F0513DOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	10.00	11.00	110	11.00	110	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-115-1433	**LCS**	**Aqueous**	**TOC 8**	**05/13/15**	**05/14/15 19:49**	**F0513DOCL2**
099-05-115-1433	**LCSD**	**Aqueous**	**TOC 8**	**05/13/15**	**05/14/15 19:49**	**F0513DOCL2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	10.00	10.30	103	10.60	106	80-120	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B
Project: EAA 27122			Page 16 of 38

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-683-1264	**LCS**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/21/15 11:29**	**150507LA5**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Calcium	0.5000	0.4872	97	80-120	
Magnesium	0.5000	0.4921	98	80-120	
Potassium	5.000	5.107	102	80-120	
Sodium	5.000	5.213	104	80-120	
Strontium	0.5000	0.5093	102	80-120	
Silicon	0.5000	0.4878	98	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	05/07/15
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San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B
Project: EAA 27122			Page 17 of 38

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-683-1265	**LCS**	**Aqueous**	**ICP 7300**	**05/07/15**	**05/16/15 21:04**	**150507LA6A**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Calcium	0.5000	0.4472	89	80-120	
Magnesium	0.5000	0.4943	99	80-120	
Potassium	5.000	4.896	98	80-120	
Sodium	5.000	4.621	92	80-120	
Strontium	0.5000	0.4853	97	80-120	
Silicon	0.5000	0.4440	89	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: EAA 27122			Page 18 of 38

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-693-820	**LCS**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/09/15 03:00**	**150507LA4F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.1000	0.09868	99	80-120	73-127	
Arsenic	0.1000	0.09926	99	80-120	73-127	
Barium	0.1000	0.09742	97	80-120	73-127	
Beryllium	0.1000	0.09743	97	80-120	73-127	
Cadmium	0.1000	0.09861	99	80-120	73-127	
Chromium	0.1000	0.1015	101	80-120	73-127	
Copper	0.1000	0.09934	99	80-120	73-127	
Lead	0.1000	0.09646	96	80-120	73-127	
Nickel	0.1000	0.09565	96	80-120	73-127	
Selenium	0.1000	0.09817	98	80-120	73-127	
Silver	0.05000	0.04706	94	80-120	73-127	
Thallium	0.1000	0.09544	95	80-120	73-127	
Zinc	0.1000	0.09991	100	80-120	73-127	
Aluminum	0.1000	0.1016	102	80-120	73-127	
Iron	5.100	5.129	101	80-120	73-127	
Manganese	0.1000	0.09955	100	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

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San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: EAA 27122			Page 19 of 38

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-693-821	**LCS**	**Aqueous**	**ICP/MS 04**	**05/07/15**	**05/09/15 03:04**	**150507LA6F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.1000	0.09791	98	80-120	73-127	
Arsenic	0.1000	0.09904	99	80-120	73-127	
Barium	0.1000	0.09653	97	80-120	73-127	
Beryllium	0.1000	0.09677	97	80-120	73-127	
Cadmium	0.1000	0.09788	98	80-120	73-127	
Chromium	0.1000	0.1027	103	80-120	73-127	
Copper	0.1000	0.09893	99	80-120	73-127	
Lead	0.1000	0.09679	97	80-120	73-127	
Nickel	0.1000	0.09447	94	80-120	73-127	
Selenium	0.1000	0.09717	97	80-120	73-127	
Silver	0.05000	0.04727	95	80-120	73-127	
Thallium	0.1000	0.09449	94	80-120	73-127	
Zinc	0.1000	0.09940	99	80-120	73-127	
Aluminum	0.1000	0.1004	100	80-120	73-127	
Iron	5.100	5.128	101	80-120	73-127	
Manganese	0.1000	0.09839	98	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-763-554	**LCS**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:00**	**150511L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.009965	100	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

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San Antonio, TX 78249-1618		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-763-555	**LCS**	**Aqueous**	**Mercury 04**	**05/11/15**	**05/11/15 18:02**	**150511L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.009819	98	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

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6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 1694
		Method:	EPA 1694 (M) Caffeine
Project: EAA 27122			Page 22 of 38

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-376-13	**LCS**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 12:27**	**150512L21**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Caffeine	100.0	96.60	97	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants	Date Received: 05/07/15
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San Antonio, TX 78249-1618	Preparation: EPA 1694
	Method: EPA 1694 (M) Caffeine
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-376-14	**LCS**	**Aqueous**	**LC/TQ 2**	**05/12/15**	**05/13/15 16:51**	**150512L22**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Caffeine	100.0	97.59	98	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-803	**LCS**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 14:43**	**150508L05**
099-12-529-803	**LCSD**	**Aqueous**	**GC 44**	**05/08/15**	**05/11/15 14:57**	**150508L05**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.4357	87	0.4463	89	50-135	36-149	2	0-25	
Gamma-BHC	0.5000	0.4556	91	0.4650	93	50-135	36-149	2	0-25	
Beta-BHC	0.5000	0.3816	76	0.4048	81	50-135	36-149	6	0-25	
Heptachlor	0.5000	0.4470	89	0.4230	85	50-135	36-149	6	0-25	
Delta-BHC	0.5000	0.4066	81	0.4293	86	50-135	36-149	5	0-25	
Aldrin	0.5000	0.4055	81	0.3680	74	50-135	36-149	10	0-25	
Heptachlor Epoxide	0.5000	0.4239	85	0.4265	85	50-135	36-149	1	0-25	
Endosulfan I	0.5000	0.4150	83	0.4206	84	50-135	36-149	1	0-25	
Dieldrin	0.5000	0.4344	87	0.4364	87	50-135	36-149	0	0-25	
4,4'-DDE	0.5000	0.4265	85	0.4297	86	50-135	36-149	1	0-25	
Endrin	0.5000	0.3544	71	0.3670	73	50-135	36-149	3	0-25	
Endrin Aldehyde	0.5000	0.4570	91	0.4520	90	50-135	36-149	1	0-25	
4,4'-DDD	0.5000	0.4255	85	0.4192	84	50-135	36-149	1	0-25	
Endosulfan II	0.5000	0.4235	85	0.4190	84	50-135	36-149	1	0-25	
4,4'-DDT	0.5000	0.3793	76	0.3829	77	50-135	36-149	1	0-25	
Endosulfan Sulfate	0.5000	0.3934	79	0.3893	78	50-135	36-149	1	0-25	
Methoxychlor	0.5000	0.3855	77	0.3814	76	50-135	36-149	1	0-25	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8081A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-804	**LCS**	**Aqueous**	**GC 44**	**05/09/15**	**05/11/15 19:30**	**150509L11**
099-12-529-804	**LCSD**	**Aqueous**	**GC 44**	**05/09/15**	**05/11/15 19:45**	**150509L11**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.4492	90	0.4483	90	50-135	36-149	0	0-25	
Gamma-BHC	0.5000	0.4664	93	0.4624	92	50-135	36-149	1	0-25	
Beta-BHC	0.5000	0.3938	79	0.3853	77	50-135	36-149	2	0-25	
Heptachlor	0.5000	0.4370	87	0.4351	87	50-135	36-149	0	0-25	
Delta-BHC	0.5000	0.4353	87	0.4263	85	50-135	36-149	2	0-25	
Aldrin	0.5000	0.4147	83	0.4141	83	50-135	36-149	0	0-25	
Heptachlor Epoxide	0.5000	0.4142	83	0.4139	83	50-135	36-149	0	0-25	
Endosulfan I	0.5000	0.4094	82	0.4075	82	50-135	36-149	0	0-25	
Dieldrin	0.5000	0.4194	84	0.4166	83	50-135	36-149	1	0-25	
4,4'-DDE	0.5000	0.4131	83	0.4072	81	50-135	36-149	1	0-25	
Endrin	0.5000	0.3959	79	0.3814	76	50-135	36-149	4	0-25	
Endrin Aldehyde	0.5000	0.4193	84	0.4188	84	50-135	36-149	0	0-25	
4,4'-DDD	0.5000	0.4100	82	0.4087	82	50-135	36-149	0	0-25	
Endosulfan II	0.5000	0.4003	80	0.3966	79	50-135	36-149	1	0-25	
4,4'-DDT	0.5000	0.3780	76	0.3567	71	50-135	36-149	6	0-25	
Endosulfan Sulfate	0.5000	0.3916	78	0.3862	77	50-135	36-149	1	0-25	
Methoxychlor	0.5000	0.3799	76	0.3540	71	50-135	36-149	7	0-25	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8082

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1035	**LCS**	**Aqueous**	**GC 31**	**05/08/15**	**05/11/15 18:00**	**150508L15**
099-12-533-1035	**LCSD**	**Aqueous**	**GC 31**	**05/08/15**	**05/11/15 18:19**	**150508L15**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	1.857	93	2.217	111	50-135	18	0-25	
Aroclor-1260	2.000	1.973	99	2.050	102	50-135	4	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8082

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1034	**LCS**	**Aqueous**	**GC 31**	**05/09/15**	**05/11/15 16:43**	**150509L12**
099-12-533-1034	**LCSD**	**Aqueous**	**GC 31**	**05/09/15**	**05/11/15 17:02**	**150509L12**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	1.592	80	1.744	87	50-135	9	0-25	
Aroclor-1260	2.000	1.740	87	1.797	90	50-135	3	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-963-93	**LCS**	**Aqueous**	**GC 26**	**05/09/15**	**05/12/15 11:57**	**150509L04**
099-15-963-93	**LCSD**	**Aqueous**	**GC 26**	**05/09/15**	**05/12/15 12:41**	**150509L04**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	0.04000	0.03887	97	0.03402	85	30-130	13-147	13	0-30	
Bolstar	0.04000	0.04686	117	0.04654	116	30-130	13-147	1	0-30	
Chlorpyrifos	0.04000	0.04314	108	0.04323	108	30-130	13-147	0	0-30	
Coumaphos	0.04000	0.04329	108	0.03855	96	30-130	13-147	12	0-30	
Diazinon	0.04000	0.04485	112	0.04375	109	30-130	13-147	2	0-30	
Disulfoton	0.04000	0.05020	126	0.04471	112	30-130	13-147	12	0-30	
Ethoprop	0.04000	0.05043	126	0.04957	124	30-130	13-147	2	0-30	
Fensulfothion	0.04000	0.04603	115	0.04442	111	30-130	13-147	4	0-30	
Fenthion	0.04000	0.04298	107	0.04221	106	30-130	13-147	2	0-30	
Merphos	0.04000	0.04717	118	0.04682	117	30-130	13-147	1	0-30	
Methyl Parathion	0.04000	0.04441	111	0.04312	108	30-130	13-147	3	0-30	
Phorate	0.04000	0.04542	114	0.04621	116	30-130	13-147	2	0-30	
Ronnel	0.04000	0.04502	113	0.04438	111	30-130	13-147	1	0-30	
Stirophos	0.04000	0.03129	78	0.03018	75	30-130	13-147	4	0-30	
Tokuthion	0.04000	0.04523	113	0.04528	113	30-130	13-147	0	0-30	
Trichloronate	0.04000	0.04820	120	0.04776	119	30-130	13-147	1	0-30	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8141A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-963-94	**LCS**	**Aqueous**	**GC 26**	**05/09/15**	**05/13/15 06:20**	**150509L05**
099-15-963-94	**LCSD**	**Aqueous**	**GC 26**	**05/09/15**	**05/13/15 07:04**	**150509L05**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	0.04000	0.03277	82	0.03283	82	30-130	13-147	0	0-30	
Bolstar	0.04000	0.04077	102	0.03964	99	30-130	13-147	3	0-30	
Chlorpyrifos	0.04000	0.03894	97	0.03751	94	30-130	13-147	4	0-30	
Coumaphos	0.04000	0.03809	95	0.03715	93	30-130	13-147	2	0-30	
Diazinon	0.04000	0.04098	102	0.04033	101	30-130	13-147	2	0-30	
Disulfoton	0.04000	0.04931	123	0.03837	96	30-130	13-147	25	0-30	
Ethoprop	0.04000	0.04532	113	0.04402	110	30-130	13-147	3	0-30	
Fensulfothion	0.04000	0.03810	95	0.03758	94	30-130	13-147	1	0-30	
Fenthion	0.04000	0.03740	94	0.03604	90	30-130	13-147	4	0-30	
Merphos	0.04000	0.04159	104	0.03825	96	30-130	13-147	8	0-30	
Methyl Parathion	0.04000	0.03571	89	0.03549	89	30-130	13-147	1	0-30	
Phorate	0.04000	0.05132	128	0.04989	125	30-130	13-147	3	0-30	
Ronnel	0.04000	0.03973	99	0.03891	97	30-130	13-147	2	0-30	
Stirophos	0.04000	0.02626	66	0.02538	63	30-130	13-147	3	0-30	
Tokuthion	0.04000	0.03960	99	0.03869	97	30-130	13-147	2	0-30	
Trichloronate	0.04000	0.04257	106	0.04161	104	30-130	13-147	2	0-30	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 8151A
Method: EPA 8151A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-034-644	**LCS**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 00:44**	**150508L12**
095-01-034-644	**LCSD**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 01:07**	**150508L12**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	20.00	19.36	97	17.82	89	30-130	8	0-30	
2,4,5-T	2.000	1.880	94	1.750	88	30-130	7	0-30	
2,4-DB	20.00	19.66	98	18.12	91	30-130	8	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 8151A
Method: EPA 8151A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-034-645	**LCS**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 01:53**	**150508L13**
095-01-034-645	**LCSD**	**Aqueous**	**GC 40**	**05/08/15**	**05/15/15 02:40**	**150508L13**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	20.00	17.68	88	17.37	87	30-130	2	0-30	
2,4,5-T	2.000	1.715	86	1.710	86	30-130	0	0-30	
2,4-DB	20.00	17.88	89	17.63	88	30-130	1	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C

Project: EAA 27122

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-4040	**LCS**	**Aqueous**	**GC/MS TT**	**05/11/15**	**05/12/15 13:16**	**150511L04**
095-01-003-4040	**LCSD**	**Aqueous**	**GC/MS TT**	**05/11/15**	**05/12/15 13:35**	**150511L04**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	200.0	189.7	95	196.8	98	61-120	51-130	4	0-20	
Acenaphthylene	200.0	179.9	90	188.1	94	55-120	44-131	4	0-20	
Butyl Benzyl Phthalate	200.0	164.6	82	169.1	85	56-122	45-133	3	0-20	
4-Chloro-3-Methylphenol	200.0	146.8	73	147.9	74	52-120	41-131	1	0-20	
2-Chlorophenol	200.0	169.0	84	165.1	83	47-120	35-132	2	0-20	
1,4-Dichlorobenzene	200.0	168.9	84	165.2	83	36-120	22-134	2	0-20	
Dimethyl Phthalate	200.0	178.6	89	185.4	93	60-120	50-130	4	0-20	
2,4-Dinitrotoluene	200.0	183.7	92	184.1	92	61-121	51-131	0	0-20	
Fluorene	200.0	187.1	94	193.5	97	67-120	58-129	3	0-20	
N-Nitroso-di-n-propylamine	200.0	149.8	75	148.9	74	39-123	25-137	1	0-20	
Naphthalene	200.0	166.4	83	169.8	85	54-120	43-131	2	0-20	
4-Nitrophenol	200.0	95.62	48	96.86	48	14-120	0-138	1	0-20	
Pentachlorophenol	200.0	117.8	59	119.6	60	31-127	15-143	2	0-20	
Phenol	200.0	151.8	76	149.8	75	17-120	0-137	1	0-20	
Pyrene	200.0	156.5	78	161.3	81	58-124	47-135	3	0-20	
1,2,4-Trichlorobenzene	200.0	163.7	82	165.5	83	49-120	37-132	1	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 05/07/15
Work Order: 15-05-0402
Preparation: EPA 3510C
Method: EPA 8270C

Project: EAA 27122

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-4039	**LCS**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 13:30**	**150509L06**
095-01-003-4039	**LCSD**	**Aqueous**	**GC/MS CCC**	**05/09/15**	**05/12/15 13:48**	**150509L06**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	200.0	179.8	90	198.6	99	61-120	51-130	10	0-20	
Acenaphthylene	200.0	177.5	89	196.1	98	55-120	44-131	10	0-20	
Butyl Benzyl Phthalate	200.0	183.2	92	201.7	101	56-122	45-133	10	0-20	
4-Chloro-3-Methylphenol	200.0	150.4	75	169.0	84	52-120	41-131	12	0-20	
2-Chlorophenol	200.0	157.6	79	174.7	87	47-120	35-132	10	0-20	
1,4-Dichlorobenzene	200.0	150.9	75	162.5	81	36-120	22-134	7	0-20	
Dimethyl Phthalate	200.0	174.7	87	193.2	97	60-120	50-130	10	0-20	
2,4-Dinitrotoluene	200.0	168.7	84	183.7	92	61-121	51-131	9	0-20	
Fluorene	200.0	181.8	91	199.6	100	67-120	58-129	9	0-20	
N-Nitroso-di-n-propylamine	200.0	168.6	84	189.4	95	39-123	25-137	12	0-20	
Naphthalene	200.0	153.3	77	167.9	84	54-120	43-131	9	0-20	
4-Nitrophenol	200.0	160.1	80	178.9	89	14-120	0-138	11	0-20	
Pentachlorophenol	200.0	138.2	69	147.8	74	31-127	15-143	7	0-20	
Phenol	200.0	162.0	81	180.3	90	17-120	0-137	11	0-20	
Pyrene	200.0	160.9	80	177.1	89	58-124	47-135	10	0-20	
1,2,4-Trichlorobenzene	200.0	146.5	73	158.3	79	49-120	37-132	8	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 34 of 38

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-17133	**LCS**	**Aqueous**	**GC/MS O**	**05/12/15**	**05/12/15 21:13**	**150512L041**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	49.24	98	80-120	73-127	
Carbon Tetrachloride	50.00	50.99	102	67-139	55-151	
Chlorobenzene	50.00	47.41	95	78-120	71-127	
1,2-Dibromoethane	50.00	54.52	109	80-120	73-127	
1,2-Dichlorobenzene	50.00	47.80	96	63-129	52-140	
1,2-Dichloroethane	50.00	50.55	101	70-130	60-140	
1,1-Dichloroethene	50.00	49.63	99	66-126	56-136	
Ethylbenzene	50.00	49.24	98	80-123	73-130	
Toluene	50.00	48.78	98	80-120	73-127	
Trichloroethene	50.00	49.21	98	80-122	73-129	
Vinyl Chloride	50.00	45.91	92	70-130	60-140	
p/m-Xylene	100.0	95.47	95	75-123	67-131	
o-Xylene	50.00	46.63	93	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	48.85	98	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 35 of 38

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-17137	**LCS**	**Aqueous**	**GC/MS O**	**05/13/15**	**05/13/15 15:39**	**150513L015**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	48.54	97	80-120	73-127	
Carbon Tetrachloride	50.00	49.47	99	67-139	55-151	
Chlorobenzene	50.00	47.17	94	78-120	71-127	
1,2-Dibromoethane	50.00	51.81	104	80-120	73-127	
1,2-Dichlorobenzene	50.00	46.82	94	63-129	52-140	
1,2-Dichloroethane	50.00	47.56	95	70-130	60-140	
1,1-Dichloroethene	50.00	47.46	95	66-126	56-136	
Ethylbenzene	50.00	49.07	98	80-123	73-130	
Toluene	50.00	48.58	97	80-120	73-127	
Trichloroethene	50.00	49.17	98	80-122	73-129	
Vinyl Chloride	50.00	44.37	89	70-130	60-140	
p/m-Xylene	100.0	96.67	97	75-123	67-131	
o-Xylene	50.00	46.64	93	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	49.00	98	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 36 of 38

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-17160	**LCS**	**Aqueous**	**GC/MS O**	**05/15/15**	**05/16/15 00:25**	**150515L039**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	50.31	101	80-120	73-127	
Carbon Tetrachloride	50.00	41.18	82	67-139	55-151	
Chlorobenzene	50.00	49.44	99	78-120	71-127	
1,2-Dibromoethane	50.00	53.24	106	80-120	73-127	
1,2-Dichlorobenzene	50.00	48.41	97	63-129	52-140	
1,2-Dichloroethane	50.00	51.80	104	70-130	60-140	
1,1-Dichloroethene	50.00	45.56	91	66-126	56-136	
Ethylbenzene	50.00	51.28	103	80-123	73-130	
Toluene	50.00	50.03	100	80-120	73-127	
Trichloroethene	50.00	50.84	102	80-122	73-129	
Vinyl Chloride	50.00	39.22	78	70-130	60-140	
p/m-Xylene	100.0	100.1	100	75-123	67-131	
o-Xylene	50.00	48.46	97	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	43.03	86	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 37 of 38

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-17134	**LCS**	**Aqueous**	**GC/MS BB**	**05/09/15**	**05/09/15 11:06**	**150509L027**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	40.21	80	80-120	73-127	
Carbon Tetrachloride	50.00	40.44	81	67-139	55-151	
Chlorobenzene	50.00	44.57	89	78-120	71-127	
1,2-Dibromoethane	50.00	45.42	91	80-120	73-127	
1,2-Dichlorobenzene	50.00	47.40	95	63-129	52-140	
1,2-Dichloroethane	50.00	46.06	92	70-130	60-140	
1,1-Dichloroethene	50.00	40.53	81	66-126	56-136	
Ethylbenzene	50.00	44.51	89	80-123	73-130	
Toluene	50.00	41.72	83	80-120	73-127	
Trichloroethene	50.00	40.51	81	80-122	73-129	
Vinyl Chloride	50.00	49.57	99	70-130	60-140	
p/m-Xylene	100.0	93.19	93	75-123	67-131	
o-Xylene	50.00	49.04	98	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	44.82	90	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	05/07/15
6200 UTSA Blvd., Suite 102		Work Order:	15-05-0402
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 38 of 38

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-17170	**LCS**	**Aqueous**	**GC/MS RR**	**05/18/15**	**05/18/15 11:29**	**150518L017**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	47.55	95	80-120	73-127	
Carbon Tetrachloride	50.00	61.59	123	67-139	55-151	
Chlorobenzene	50.00	50.18	100	78-120	71-127	
1,2-Dibromoethane	50.00	49.22	98	80-120	73-127	
1,2-Dichlorobenzene	50.00	50.44	101	63-129	52-140	
1,2-Dichloroethane	50.00	48.05	96	70-130	60-140	
1,1-Dichloroethene	50.00	55.67	111	66-126	56-136	
Ethylbenzene	50.00	48.75	97	80-123	73-130	
Toluene	50.00	47.72	95	80-120	73-127	
Trichloroethene	50.00	45.07	90	80-122	73-129	
Vinyl Chloride	50.00	42.54	85	70-130	60-140	
p/m-Xylene	100.0	99.93	100	75-123	67-131	
o-Xylene	50.00	50.79	102	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	50.22	100	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-05-0402 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 1694 (M) Caffeine	EPA 1694	262	LC/TQ 2	1
EPA 300.0	N/A	834	IC 15	1
EPA 365.1	N/A	735	ACA 1	1
EPA 6010B	EPA 3005A Filt.	935	ICP 7300	1
EPA 6020	EPA 3005A Filt.	598	ICP/MS 04	1
EPA 7470A	EPA 7470A Filt.	598	Mercury 04	1
EPA 8081A	EPA 3510C	669	GC 44	1
EPA 8082	EPA 3510C	669	GC 31	1
EPA 8141A	EPA 3510C	949	GC 26	1
EPA 8151A	EPA 8151A	944	GC 40	1
EPA 8260B	EPA 5030C	131	GC/MS RR	2
EPA 8260B	EPA 5030C	975	GC/MS O	2
EPA 8260B	EPA 5030C	975	GC/MS BB	2
EPA 8270C	EPA 3510C	923	GC/MS CCC	1
SM 2320B	N/A	688	PH1/BUR03	1
SM 2540 C	N/A	689	SC 2	1
SM 2540 D	N/A	689	N/A	1
SM 4500 H+ B	N/A	688	PH 1	1
SM 4500 N Org B	N/A	685	BUR05	1
SM 5310 B	N/A	735	TOC 8	1

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Glossary of Terms and Qualifiers

Work Order: 15-05-0402 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **15-05-0402**

DATE: 5-6-2015

PAGE: 1 OF 3

LABORATORY CLIENT: SWCA Environmental Consultants

ADDRESS: 6200 UTSA Blvd. Suite 102

CITY: San Antonio STATE: TX ZIP: 78249-1618

TEL: 210.877.2847 E-MAIL: PPearce@swca.com

CLIENT PROJECT NAME / NUMBER: EAA 27122

P.O. NO.: 27122.02.08

PROJECT CONTACT: Philip Pearce

SAMPLER(S): (PRINT) PHIL PEARCE, JENNA CANTWELL

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 10 Days (standard)

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Samples for EPA 6010B, EPA 6020, and EPA 7470 Metals are field filtered

EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn

Please also analyze each sample for pH

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 6010B (Si, Ca, Mg, K, Na, Sr)	EPA 6020 (See Comments)	EPA 7470A Mercury	EPA 1694 (M) Caffeine	EPA 8081A Organochlorine Pesticides	EPA 8082 PCB Aroclors	EPA 8141A Organophosphorus Pest	EPA 8151A Chlorinated Herbicides	EPA 8270C Semi-Volatile Organics	EPA 8260B Volatile Organics	EPA 300 Anions (F, Cl, Br, NO3, SO4)	EPA 365.1 Total Phosphorus	SM 2320B Alkalinity: Total, Bicarb, Carb	SM 5310B TOC	SM 5310B DOC	SM 5310B Solids, Total Dissolved	SM 4500 N Org B TKN	EPA 160.2 TSS
1	HSM 210 Lead	5/5/2015	22:10	NPW	9	2	7	1	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X
2	HSM 230 Lead	5/5/2015	22:20	NPW	9	2	7	1	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X
3	HSM 231 Lead	5/5/2015	22:11	NPW	9	2	7	1	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X
4	HSM 240 Lead	5/5/2015	22:49	NPW	9	2	7	1	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X
5	HSM 250 Lead	5/5/2015	22:~~29~~ 27 PP	NPW	9	2	7	1	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X
6	HSM 260 Lead	5/5/2015	22:46	NPW	9	2	7	1	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X
7	HSM 270 Lead	5/5/2015	23:06	NPW	9	2	7	1	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X

Relinquished by: (Signature) Phil Pearce	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature) FedEx	Received by: (Signature/Affiliation) ECI	Date: 05/07/15	Time: 1030
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: 15-05-0402

DATE: 5-6-2015

PAGE: 2 OF 3

LABORATORY CLIENT: SWCA Environmental Consultants

ADDRESS: 6200 UTSA Blvd. Suite 102

CITY: San Antonio STATE: TX ZIP: 78249-1618

TEL: 210.877.2847 E-MAIL: PPearce@swca.com

CLIENT PROJECT NAME / NUMBER: EAA 27122

P.O. NO.: 27122.02.08

PROJECT CONTACT: Philip Pearce

SAMPLER(S): (PRINT) PHIL PEARCE, JENNA CANTWELL

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 10 Days (standard)

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Samples for EPA 6010B, EPA 6020, and EPA 7470 Metals are field filtered

EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn

Please also analyze each sample for pH

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 6010B (Si, Ca, Mg, K, Na, Sr)	EPA 6020 (See Comments)	EPA 7470A Mercury	EPA 1694 (M) Caffeine	EPA 8081A Organochlorine Pesticides	EPA 8082 PCB Aroclors	EPA 8141A Organophosphorus Pest	EPA 8151A Chlorinated Herbicides	EPA 8270C Semi-Volatile Organics	EPA 8260B Volatile Organics	EPA 300 Anions (F, Cl, Br, NO3, SO4)	EPA 365.1 Total Phosphorus	SM 2320B Alkalinity: Total, Bicarb, Carb	SM 5310B TOC	SM 5310B DOC	SM 5310B Solids, Total Dissolved	SM 4500 N Org B TKN	EPA 160.2 TSS
8	HSM 210 Peak	5-5-15	23:24	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
9	HSM 230 Peak	5-5-15	23:35	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
10	HSM 231 Peak	5-5-15	22:11	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
11	HSM 240 Peak	5-6-15	00:05	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
12	HSM 250 Peak	5-5-15	23:30	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
13	HSM 260 Peak	5-5-15	23:49	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
14	HSM 270 Peak	5-6-15	00:06	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
15	PP ~~TB03~~ TB06	5-6-14	10:11	NPW	1												x									

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Relinquished by: (Signature)	Received by: (Signature/Affiliation) EL	Date: 05/07/15	Time: 1030
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WO # / LAB USE ONLY: 15-05-0402

DATE: 5-6-2015

PAGE: 3 OF 3

LABORATORY CLIENT: SWCA Environmental Consultants	CLIENT PROJECT NAME / NUMBER: EAA 27122
ADDRESS: 6200 UTSA Blvd. Suite 102	P.O. NO.: 27122.02.08
CITY: San Antonio STATE: TX ZIP: 78249-1618	PROJECT CONTACT: Philip Pearce
TEL: 210.877.2847 E-MAIL: PPearce@swca.com	SAMPLER(S): (PRINT) PHIL PEARCE, JENNA CANTWELL

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 10 Days (standard)

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
Samples for EPA 6010B, EPA 6020, and EPA 7470 Metals are field filtered

EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn
Please also analyze each sample for pH

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 6010B (Si, Ca, Mg, K, Na, Sr)	EPA 6020 (See Comments)	EPA 7470A Mercury	EPA 1694 (M) Caffeine	EPA 8081A Organochlorine Pesticides	EPA 8082 PCB Aroclors	EPA 8141A Organophosphorus Pest	EPA 8151A Chlorinated Herbicides	EPA 8270C Semi-Volatile Organics	EPA 8260B Volatile Organics	EPA 300 Anions (F, Cl, Br, NO3, SO4)	EPA 365.1 Total Phosphorus	SM 2320B Alkalinity: Total, Bicarb, Carb	SM 5310B TOC	SM 5310B DOC	SM 5310B Solids, Total Dissolved	SM 4500 N Org B TKN	EPA 160.2 TSS
16	HSM 210 Trail	5-6-15	01:30	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
17	HSM 230 Trail		~~01:30~~ 02:15	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
18	HSM 231 Trail		02:40	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
19	HSM 240 Trail		03:05	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
20	HSM 250 Trail		03:58	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
21	HSM 260 Trail		04:20	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
22	HSM 270 Trail		04:40	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
23	FDHSM 210 Trail		01:30	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
24	FDHSM 230 Trail		02:15	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
25	FDHSM231 Trail	↓	02:40	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC	Date: 05/07/15	Time: 1030
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

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From: (210) 877-2847
Philip C. Pearce, P.G.
SWCA
6200 UTSA Blvd
Ste 102
San Antonio, TX 78249

Origin ID: SATA

FedEx Express

J1512150223030v

Ship Date: 06MAY15
ActWgt: 50.0 LB
CAD: 8347991/INET3610

Dims: 24 X 13 X 14 IN

Delivery Address Bar Code

Ref # 27122.02.08
Invoice #
PO #
Dept #

SHIP TO: (714) 895-5494

BILL SENDER

Laboratory
Eurofins Calscience
7440 LINCOLN WAY

GARDEN GROVE, CA 92841

1 of 24

TRK# 7735 3671 6556

0201

MASTER

A7 APVA

THU - 07 MAY AA
STANDARD OVERNIGHT
DSR
92841
CA-US
SNA

537J1/25E2/EE4B

24 Piece shipment

Tracking number

773536716556
(master)
773536716957
773536716990
773536717092
773536717221
773536717482
773536717574
773536717703
773536717817
773536718077
773536718099
773536718250
773536718320
773536718353
773536718401
773536718456
773536718673
773536718982
773536719040
773536719084
773536719338
773536719371
773536719522
773536719566

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.5 °C (w/ CF): 3.2 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 300

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑ 300	☑	☐
Sample container(s) intact and in good condition	☐ 5/7/15	☑	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: 150413B)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 300

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 2.3 °C (w/ CF): 2.0 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 300

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☑ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOA**h** (3) ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 subi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 300

Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 3 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.1 °C (w/ CF): 2.8 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 300

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 300

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 4 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 4.0 °C (w/ CF): 3.7 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 300

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 subi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 300

Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 5 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.3 °C (w/ CF): 3.0 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler	☑ Present and Intact	☐ Present but Not Intact	☐ Not Present	☐ N/A	Checked by: 300
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☑ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 300

Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 6 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 2.7 °C (w/ CF): 2.4 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler	☑ Present and Intact	☐ Present but Not Intact	☐ Not Present	☐ N/A	Checked by: 300
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 300

Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 7 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 2.4 °C (w/ CF): 2.1 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 300

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☑ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 300

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 8 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 2.4 °C (w/ CF): 2.1 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler	☑ Present and Intact	☐ Present but Not Intact	☐ Not Present	☐ N/A	Checked by: 300
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☑ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 300

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 9 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.1 °C (w/ CF): 2.8 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 300

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 300

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 10 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 4.6 °C (w/ CF): 4.3 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 300

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☑ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 300

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 11 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.7 °C (w/ CF): 3.4 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler	☑ Present and Intact	☐ Present but Not Intact	☐ Not Present	☐ N/A	Checked by: 300
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 300

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☑ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 300

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 12 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 4.5 °C (w/ CF): 4.2 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler	☑ Present and Intact	☐ Present but Not Intact	☐ Not Present	☐ N/A	Checked by: 300
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 300

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☑ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOA**h** (3) ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 300

Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 13 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 4.0 °C (w/ CF): 3.7 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 300

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☑ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 subi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 300

Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 14 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 2.9 °C (w/ CF): 2.6 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 300

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☑ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAn (3) ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 300

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 15 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 2.9 °C (w/ CF): 2.6 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 300

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☑ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOA**h** (3) ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 300

Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 16 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.5 °C (w/ CF): 3.2 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 300

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☑ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 300

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 17 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 4.8 °C (w/ CF): 4.5 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 300

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (5) ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 300

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 18 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 4.4 °C (w/ CF): 4.1 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler	☑ Present and Intact	☐ Present but Not Intact	☐ Not Present	☐ N/A	Checked by: 300
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☑ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (5) ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cub ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 300

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 19 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 2.8 °C (w/ CF): 2.5 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 300

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 300

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 20 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 4.0 °C (w/ CF): 3.7 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler	☑ Present and Intact	☐ Present but Not Intact	☐ Not Present	☐ N/A	Checked by: 300
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☑ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGBs (2) ☐ 250PB ☑ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☑ 1AGB ☐ 1AGBna_2 ☑ 1AGBs ☐ 1PB ☐ 1PBna ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 300

Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 2.7 °C (w/ CF): 2.4 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 300

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☑ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 300

Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 22 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.2 °C (w/ CF): 2.9 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 300

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☑ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 300

Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 23 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.6 °C (w/ CF): 3.3 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 300

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☑ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 300

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE RECEIPT CHECKLIST

COOLER 24 OF 24

CLIENT: SWCA Env'l Consultants

DATE: 05 / 07 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 4.6 °C (w/ CF): 4.3 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 300

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 300

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☑ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☑ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOA**h** (3) ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☑ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5 cubi ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 300

Reviewed by: 972

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WORK ORDER NUMBER: 15-05- 0402

SAMPLE ANOMALY REPORT

DATE: 05 / 07 / 2015

SAMPLES, CONTAINERS, AND LABELS:

Comments

- ☐ Sample(s) NOT RECEIVED but listed on COC
- ☐ Sample(s) received but NOT LISTED on COC
- ☐ Holding time expired (list client or ECI sample ID and analysis)
- ☐ Insufficient sample amount for requested analysis (list analysis)
- ☐ Improper container(s) used (list analysis)
- ☐ Improper preservative used (list analysis)
- ☐ No preservative noted on COC or label (list analysis and notify lab)
- ☐ Sample container(s) not labeled
- ☐ Client sample label(s) illegible (list container type and analysis)
- ☑ Client sample label(s) do not match COC (comment)
  - ☐ Project information
  - ☐ Client sample ID
  - ☐ Sampling date and/or time
  - ☑ Number of container(s)
  - ☑ Requested analysis
- ☐ Sample container(s) compromised (comment)
  - ☐ Broken
  - ☐ Water present in sample container
- ☐ Air sample container(s) compromised (comment)
  - ☐ Flat
  - ☐ Very low in volume
  - ☐ Leaking (not transferred; duplicate bag submitted)
  - ☐ Leaking (transferred into ECI Tedlar™ bags*)
  - ☐ Leaking (transferred into client's Tedlar™ bags*)

(-24) FDHSM 23D Trail received only 6 of 9 containers
Not received: 2 of 3 vials (8260)
1 liter Amber Glass (8270)

1 Liter Amber Glass w/ H_2SO_4 (TKN) received not full (~400ml)

(-15) TB06 received vial for 8260 (requested 8270).

* Transferred at client's request.

MISCELLANEOUS: (Describe)

Limited Volume

Comments

HEADSPACE:

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**

(Containers with bubble for other analysis)

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis

Comments: _____

Reported by: GTZ

Reviewed by: JDD

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS210 Lead
Sample Number: AA97930
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 11:46
Receipt Date/Time: 10/23/15 15:18

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97930-A	E. coli	√	SM 9223B-2004	77000	MPN/100 mL		1	44747	10/23/15	16:49	PAL/CKK
AA97930-A	E. Coli Holding Time - IDEXX Colilert		NA	5.05	hours		0.00	44746	10/23/15	16:49	PAL/CKK

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44747

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 11/3/2015 9:45:15AM as released by PMC

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS240 Lead
Sample Number: AA97931
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 12:00
Receipt Date/Time: 10/23/15 15:18

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97931-A	E. coli	√	SM 9223B-2004	20000	MPN/100 mL		1	44747	10/23/15	16:49	PAL/CKK
AA97931-A	E. Coli Holding Time - IDEXX Colilert		NA	4.82	hours		0.00	44746	10/23/15	16:49	PAL/CKK

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
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600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44747

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS250 Lead
Sample Number: AA97932
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 12:03
Receipt Date/Time: 10/23/15 15:18

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97932-A	E. coli	√	SM 9223B-2004	25000	MPN/100 mL		1	44747	10/23/15	16:49	PAL/CKK
AA97932-A	E. Coli Holding Time - IDEXX Colilert		NA	4.77	hours		0.00	44746	10/23/15	16:49	PAL/CKK

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44747

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS260 Lead
Sample Number: AA97933
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 12:24
Receipt Date/Time: 10/23/15 15:18

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97933-A	E. coli	√	SM 9223B-2004	17000	MPN/100 mL		1	44747	10/23/15	16:49	PAL/CKK
AA97933-A	E. Coli Holding Time - IDEXX Colilert		NA	4.42	hours		0.00	44746	10/23/15	16:49	PAL/CKK

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44747

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS270 Lead
Sample Number: AA97934
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 12:20
Receipt Date/Time: 10/23/15 15:18

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97934-A	E. coli	√	SM 9223B-2004	24000	MPN/100 mL		1	44747	10/23/15	16:49	PAL/CKK

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44747

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM210 LEAD
Sample Number: AA97943
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 15:25
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97943-A	E. coli	√	SM 9223B-2004	41	MPN/100 mL	H	1	44773	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44773

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM230 LEAD
Sample Number: AA97944
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 15:41
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed. Limited air space.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97944-A	E. coli	√	SM 9223B-2004	87000	MPN/100 mL	H	1	44773	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44773

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM231 LEAD
Sample Number: AA97945
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 16:02
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed. Minimial sample volume.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97945-A	E. coli	√	SM 9223B-2004	11000	MPN/100 mL	H	1	44773	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44773

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM240 LEAD
Sample Number: AA97946
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 15:30
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97946-A	E. coli	√	SM 9223B-2004	28000	MPN/100 mL	H	1	44773	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44773

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM250 LEAD
Sample Number: AA97947
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 16:21
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97947-A	E. coli	√	SM 9223B-2004	9200	MPN/100 mL	H	1	44773	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44773

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM260 LEAD
Sample Number: AA97948
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 15:58
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97948-A	E. coli	√	SM 9223B-2004	7300	MPN/100 mL	H	1	44773	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44773

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS240 PEAK
Sample Number: AA97949
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 14:36
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97949-A	E. coli	√	SM 9223B-2004	2000	MPN/100 mL	H	1	44773	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44773

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS250 PEAK
Sample Number: AA97950
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 14:59
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97950-A	E. coli	√	SM 9223B-2004	17000	MPN/100 mL	H	1	44773	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44773

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS260 PEAK
Sample Number: AA97951
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 15:01
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed. Minmial sample volume.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97951-A	E. coli	√	SM 9223B-2004	20000	MPN/100 mL	H	1	44773	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
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P.O. Box 839980
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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44773

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS270 PEAK
Sample Number: AA97952
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 15:16
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97952-A	E. coli	√	SM 9223B-2004	20000	MPN/100 mL	H	1	44775	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44775

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM260 PEAK
Sample Number: AA97953
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 17:25
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97953-A	E. coli	√	SM 9223B-2004	24000	MPN/100 mL	H	1	44775	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44775

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM270 PEAK
Sample Number: AA97954
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 17:45
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97954-A	E. coli	√	SM 9223B-2004	8700	MPN/100 mL	H	1	44775	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44775

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM210 TRAIL
Sample Number: AA97955
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 20:35
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97955-A	E. coli	√	SM 9223B-2004	450	MPN/100 mL	H	1	44775	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44775

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: FDHSM210 TRAIL
Sample Number: AA97956
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 20:35
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97956-A	E. coli	√	SM 9223B-2004	180	MPN/100 mL	H	1	44775	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44775

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM230 TRAIL
Sample Number: AA97957
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 21:01
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97957-A	E. coli	√	SM 9223B-2004	73000	MPN/100 mL	H	1	44775	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44775

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: FDHSM230 TRAIL
Sample Number: AA97958
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 21:01
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed. Minimial sample volume.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97958-A	E. coli	√	SM 9223B-2004	65000	MPN/100 mL	H	1	44775	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44775

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS270 TRAIL
Sample Number: AA97959
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 17:34
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97959-A	E. coli	√	SM 9223B-2004	20000	MPN/100 mL	H	1	44775	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44775

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: FDHCS270 TRAIL
Sample Number: AA97960
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 17:34
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97960-A	E. coli	√	SM 9223B-2004	17000	MPN/100 mL	H	1	44775	10/26/15	15:42	HH/ST

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44775

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM231 TRAIL
Sample Number: AA97961
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 21:21
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97961-A	E. coli	√	SM 9223B-2004	1700	MPN/100 mL	H	1	44777	10/26/15	15:55	HH

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44777

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: FDHSM231 TRAIL
Sample Number: AA97962
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 21:21
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97962-A	E. coli	√	SM 9223B-2004	1700	MPN/100 mL	H	1	44777	10/26/15	15:55	HH

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44777

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM240 TRAIL
Sample Number: AA97963
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 20:51
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97963-A	E. coli	√	SM 9223B-2004	750	MPN/100 mL	H	1	44777	10/26/15	15:55	HH

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44777

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM250 TRAIL
Sample Number: AA97964
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 20:06
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

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For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97964-A	E. coli	√	SM 9223B-2004	1900	MPN/100 mL	H	1	44777	10/26/15	15:55	HH

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44777

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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Environmental Sciences Department Laboratory

ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM260 TRAIL
Sample Number: AA97965
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 21:35
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

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For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97965-A	E. coli	√	SM 9223B-2004	4600	MPN/100 mL	H	1	44777	10/26/15	15:55	HH

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44777

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM270 TRAIL
Sample Number: AA97966
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 21:55
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97966-A	E. coli	√	SM 9223B-2004	4100	MPN/100 mL	H	1	44777	10/26/15	15:55	HH

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44777

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS210 TRAIL
Sample Number: AA97967
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 16:14
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97967-A	E. coli	√	SM 9223B-2004	69000	MPN/100 mL	H	1	44777	10/26/15	15:55	HH

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44777

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS240 TRAIL
Sample Number: AA97968
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 16:29
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97968-A	E. coli	√	SM 9223B-2004	2900	MPN/100 mL	H	1	44777	10/26/15	15:55	HH

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44777

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS250 TRAIL
Sample Number: AA97969
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 17:09
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

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Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97969-A	E. coli	√	SM 9223B-2004	16000	MPN/100 mL	H	1	44777	10/26/15	15:55	HH

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44777

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HCS260 TRAIL
Sample Number: AA97970
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 16:50
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

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Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97970-A	E. coli	√	SM 9223B-2004	20000	MPN/100 mL	H	1	44779	10/26/15	15:55	HH

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44779

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: FDHCS260 TRAIL
Sample Number: AA97971
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 16:50
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

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Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97971-A	E. coli	√	SM 9223B-2004	24000	MPN/100 mL	H	1	44779	10/26/15	15:55	HH

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44779

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM270 LEAD
Sample Number: AA97972
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 16:15
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

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Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97972-A	E. coli	√	SM 9223B-2004	14000	MPN/100 mL	H	1	44779	10/26/15	15:55	HH

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44779

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM210 PEAK
Sample Number: AA97973
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 17:02
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97973-A	E. coli	√	SM 9223B-2004	41	MPN/100 mL	H	1	44779	10/26/15	15:55	HH

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44779

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

November 03, 2015

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM230 PEAK
Sample Number: AA97974
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 17:16
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97974-A	E. coli	√	SM 9223B-2004	11000	MPN/100 mL	H	1	44779	10/26/15	15:55	HH

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44779

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

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ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM231 PEAK
Sample Number: AA97975
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 17:06
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97975-A	E. coli	√	SM 9223B-2004	2200	MPN/100 mL	H	1	44779	10/26/15	15:55	HH

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44779

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 11/3/2015 9:45:15AM as released by PMC

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM240 PEAK
Sample Number: AA97976
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 17:34
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97976-A	E. coli	√	SM 9223B-2004	1000	MPN/100 mL	H	1	44779	10/26/15	15:55	HH

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44779

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 11/3/2015 9:45:15AM as released by PMC

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

Client:
Phil Pearce
6200 UTSA Blvd Ste 102
San Antonio, TX 78249 Fax #: NA

Sample Location: HSM250 PEAK
Sample Number: AA97977
Sample Matrix: Non Potable Water

Collection Date/Time: 10/23/15 17:05
Receipt Date/Time: 10/26/15 08:32

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.
For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative .

Sample Comments: Exceeded hold time, per customer proceed.

ANALYTICAL RESULTS

	Analyses	NELAC	Analysis Method	Result	Units	Qualifier	Reporting Limit	QC Batch Number	Analysis Date	Analysis Time	Analyst
AA97977-A	E. coli	√	SM 9223B-2004	6500	MPN/100 mL	H	1	44779	10/26/15	15:55	HH

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

SAN ANTONIO RIVER AUTHORITY
Leaders in Watershed Solutions
600 E Euclid Avenue
P.O. Box 839980
San Antonio, TX 78283-9980

Environmental Sciences Department Laboratory

ANALYTICAL REPORT

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-44779

QC Analyte Name	Result	Units	Qualifier	Acceptance Criteria Lower	Target	Upper
Initial Blank for E. coli	Absent			---	Absent	---

Patricia M. Carvajal
Quality Assurance Supervisor

11/3/2015
Date

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
--- - Not Applicable

The data in this report is current as of: 11/3/2015 9:45:15AM as released by PMC

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WORK ORDER NUMBER: 15-10-1856

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: SWCA Environmental Consultants

Client Project Name: EAA 27122

Attention: Philip Pearce
6200 UTSA Blvd.
Suite 102
San Antonio, TX 78249-1618

Approved for release on 11/23/2015 by:
Don Burley
Project Manager

ResultLink

Email your PM

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Contents

Client Project Name: EAA 27122
Work Order Number: 15-10-1856

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Work Order Narrative

Work Order: 15-10-1856 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 10/24/15. They were assigned to Work Order 15-10-1856.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	SWCA Environmental Consultants	Work Order:	15-10-1856
	6200 UTSA Blvd., Suite 102	Project Name:	EAA 27122
	San Antonio, TX 78249-1618	PO Number:	
		Date/Time Received:	10/24/15 11:40
		Number of Containers:	75
Attn:	Philip Pearce		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
HCS 210 Lead	15-10-1856-1	10/23/15 11:46	9	Aqueous
HCS 240 Lead	15-10-1856-2	10/23/15 12:00	9	Aqueous
HCS 250 Lead	15-10-1856-3	10/23/15 12:03	9	Aqueous
HCS 260 Lead	15-10-1856-4	10/23/15 12:24	9	Aqueous
HCS 270 Lead	15-10-1856-5	10/23/15 12:20	11	Aqueous
TB14	15-10-1856-6	10/23/15 19:30	1	Aqueous
HCS 210 Peak	15-10-1856-7	10/23/15 14:19	9	Aqueous
HCS 240 Peak	15-10-1856-8	10/23/15 14:36	9	Aqueous
HCS 250 Peak	15-10-1856-9	10/23/15 14:59	9	Aqueous

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-10-1856-1-I**	**10/23/15 11:46**	**Aqueous**	**IC 15**	**N/A**	**10/24/15 18:28**	**151024L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.030	0.10	0.027	1.00	J
Chloride	1.8	1.0	0.52	1.00	
Bromide	ND	0.10	0.058	1.00	
Nitrate (as N)	0.44	0.10	0.053	1.00	
Sulfate	2.7	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Lead	**15-10-1856-2-I**	**10/23/15 12:00**	**Aqueous**	**IC 15**	**N/A**	**10/24/15 18:46**	**151024L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.16	0.10	0.027	1.00	
Chloride	11	1.0	0.52	1.00	
Bromide	ND	0.10	0.058	1.00	
Nitrate (as N)	1.2	0.10	0.053	1.00	
Sulfate	17	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-10-1856-3-I**	**10/23/15 12:03**	**Aqueous**	**IC 15**	**N/A**	**10/24/15 19:05**	**151024L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.15	0.10	0.027	1.00	
Chloride	13	1.0	0.52	1.00	
Bromide	0.086	0.10	0.058	1.00	J
Nitrate (as N)	1.3	0.10	0.053	1.00	
Sulfate	19	1.0	0.27	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Lead	**15-10-1856-4-I**	**10/23/15 12:24**	**Aqueous**	**IC 15**	**N/A**	**10/24/15 20:04**	**151024L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.19	0.10	0.027	1.00	
Chloride	17	1.0	0.52	1.00	
Bromide	0.11	0.10	0.058	1.00	
Nitrate (as N)	1.7	0.10	0.053	1.00	
Sulfate	30	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-10-1856-5-I**	**10/23/15 12:20**	**Aqueous**	**IC 15**	**N/A**	**10/24/15 20:22**	**151024L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.16	0.10	0.027	1.00	
Chloride	13	1.0	0.52	1.00	
Bromide	0.086	0.10	0.058	1.00	J
Nitrate (as N)	1.4	0.10	0.053	1.00	
Sulfate	22	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-10-1856-7-I**	**10/23/15 14:19**	**Aqueous**	**IC 15**	**N/A**	**10/24/15 20:41**	**151024L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.081	0.10	0.027	1.00	J
Chloride	4.8	1.0	0.52	1.00	
Bromide	ND	0.10	0.058	1.00	
Nitrate (as N)	0.61	0.10	0.053	1.00	
Sulfate	7.5	1.0	0.27	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-10-1856-8-I**	**10/23/15 14:36**	**Aqueous**	**IC 15**	**N/A**	**10/24/15 20:59**	**151024L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.18	0.10	0.027	1.00	
Chloride	17	1.0	0.52	1.00	
Bromide	0.11	0.10	0.058	1.00	
Nitrate (as N)	1.7	0.10	0.053	1.00	
Sulfate	26	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-10-1856-9-I**	**10/23/15 14:59**	**Aqueous**	**IC 15**	**N/A**	**10/24/15 21:39**	**151024L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.19	0.10	0.027	1.00	
Chloride	16	1.0	0.52	1.00	
Bromide	0.095	0.10	0.058	1.00	J
Nitrate (as N)	1.6	0.10	0.053	1.00	
Sulfate	24	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-906-6192**	**N/A**	**Aqueous**	**IC 15**	**N/A**	**10/24/15 15:40**	**151024L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	ND	0.10	0.027	1.00	
Chloride	ND	1.0	0.52	1.00	
Bromide	ND	0.10	0.058	1.00	
Nitrate (as N)	ND	0.10	0.053	1.00	
Sulfate	ND	1.0	0.27	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-10-1856-1-D**	**10/23/15 11:46**	**Aqueous**	**ICP 7300**	**10/26/15**	**10/30/15 20:44**	**151026LA4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	14.1	0.100	0.0118	1.00	
Magnesium	1.28	0.100	0.00336	1.00	
Potassium	3.29	0.500	0.103	1.00	
Sodium	1.32	0.500	0.103	1.00	
Strontium	0.0449	0.0300	0.00277	1.00	
Silicon	1.07	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Lead	**15-10-1856-2-D**	**10/23/15 12:00**	**Aqueous**	**ICP 7300**	**10/26/15**	**10/30/15 20:50**	**151026LA4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	54.5	0.100	0.0118	1.00	
Magnesium	11.7	0.100	0.00336	1.00	
Potassium	2.77	0.500	0.103	1.00	
Sodium	8.60	0.500	0.103	1.00	
Strontium	0.438	0.0300	0.00277	1.00	
Silicon	4.28	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-10-1856-3-D**	**10/23/15 12:03**	**Aqueous**	**ICP 7300**	**10/26/15**	**10/30/15 20:53**	**151026LA4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	62.5	0.100	0.0118	1.00	
Magnesium	13.1	0.100	0.00336	1.00	
Potassium	2.30	0.500	0.103	1.00	
Sodium	9.56	0.500	0.103	1.00	
Strontium	0.497	0.0300	0.00277	1.00	
Silicon	4.66	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Lead	**15-10-1856-4-D**	**10/23/15 12:24**	**Aqueous**	**ICP 7300**	**10/26/15**	**10/30/15 20:55**	**151026LA4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	77.6	0.100	0.0118	1.00	
Magnesium	17.0	0.100	0.00336	1.00	
Potassium	1.86	0.500	0.103	1.00	
Sodium	12.8	0.500	0.103	1.00	
Strontium	0.657	0.0300	0.00277	1.00	
Silicon	5.92	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-10-1856-5-D**	**10/23/15 12:20**	**Aqueous**	**ICP 7300**	**10/26/15**	**10/30/15 20:57**	**151026LA4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	61.2	0.100	0.0118	1.00	
Magnesium	13.2	0.100	0.00336	1.00	
Potassium	2.50	0.500	0.103	1.00	
Sodium	11.1	0.500	0.103	1.00	
Strontium	0.512	0.0300	0.00277	1.00	
Silicon	4.82	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-10-1856-7-D**	**10/23/15 14:19**	**Aqueous**	**ICP 7300**	**10/26/15**	**10/30/15 21:00**	**151026LA4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	26.7	0.100	0.0118	1.00	
Magnesium	4.61	0.100	0.00336	1.00	
Potassium	3.18	0.500	0.103	1.00	
Sodium	3.50	0.500	0.103	1.00	
Strontium	0.174	0.0300	0.00277	1.00	
Silicon	2.17	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-10-1856-8-D**	**10/23/15 14:36**	**Aqueous**	**ICP 7300**	**10/26/15**	**10/30/15 21:02**	**151026LA4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	80.2	0.100	0.0118	1.00	
Magnesium	16.9	0.100	0.00336	1.00	
Potassium	1.65	0.500	0.103	1.00	
Sodium	11.9	0.500	0.103	1.00	
Strontium	0.653	0.0300	0.00277	1.00	
Silicon	6.04	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-10-1856-9-D**	**10/23/15 14:59**	**Aqueous**	**ICP 7300**	**10/26/15**	**10/30/15 21:04**	**151026LA4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	73.1	0.100	0.0118	1.00	
Magnesium	15.3	0.100	0.00336	1.00	
Potassium	2.07	0.500	0.103	1.00	
Sodium	11.1	0.500	0.103	1.00	
Strontium	0.596	0.0300	0.00277	1.00	
Silicon	5.51	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-683-1457**	**N/A**	**Aqueous**	**ICP 7300**	**10/26/15**	**10/30/15 19:06**	**151026LA4**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	ND	0.100	0.0118	1.00	
Magnesium	ND	0.100	0.00336	1.00	
Potassium	ND	0.500	0.103	1.00	
Sodium	ND	0.500	0.103	1.00	
Strontium	ND	0.0300	0.00277	1.00	
Silicon	ND	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-10-1856-1-D**	**10/23/15 11:46**	**Aqueous**	**ICP/MS 03**	**10/26/15**	**11/02/15 11:25**	**151026LA1F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000140	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.00942	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000720	0.00100	0.000402	1.00	J
Copper	0.00183	0.00100	0.000140	1.00	
Lead	0.000270	0.00100	0.0000898	1.00	J
Nickel	0.00110	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0125	0.00500	0.000479	1.00	
Aluminum	0.0258	0.0500	0.00331	1.00	J
Iron	0.0665	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Lead	**15-10-1856-2-D**	**10/23/15 12:00**	**Aqueous**	**ICP/MS 03**	**10/26/15**	**10/30/15 05:25**	**151026LA1F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0381	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000449	0.00100	0.000402	1.00	J
Copper	0.000975	0.00100	0.000140	1.00	J
Lead	0.000105	0.00100	0.0000898	1.00	J
Nickel	0.00106	0.00100	0.000132	1.00	
Selenium	0.000329	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0228	0.00500	0.000479	1.00	
Aluminum	0.00911	0.0500	0.00331	1.00	J
Iron	0.0704	0.0500	0.00926	1.00	
Manganese	0.00399	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-10-1856-3-D**	**10/23/15 12:03**	**Aqueous**	**ICP/MS 03**	**10/26/15**	**10/30/15 05:29**	**151026LA1F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	0.000391	0.00100	0.000386	1.00	J
Barium	0.0435	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000420	0.00100	0.000402	1.00	J
Copper	0.000787	0.00100	0.000140	1.00	J
Lead	0.0000992	0.00100	0.0000898	1.00	J
Nickel	0.00102	0.00100	0.000132	1.00	
Selenium	0.000383	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0117	0.00500	0.000479	1.00	
Aluminum	0.00464	0.0500	0.00331	1.00	J
Iron	0.0467	0.0500	0.00926	1.00	J
Manganese	0.00522	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Lead	**15-10-1856-4-D**	**10/23/15 12:24**	**Aqueous**	**ICP/MS 03**	**10/26/15**	**10/30/15 05:32**	**151026LA1F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	0.00763	0.00100	0.000386	1.00	
Barium	0.0553	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000570	0.00100	0.000402	1.00	J
Copper	0.00120	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00147	0.00100	0.000132	1.00	
Selenium	0.000413	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0112	0.00500	0.000479	1.00	
Aluminum	0.00530	0.0500	0.00331	1.00	J
Iron	0.0534	0.0500	0.00926	1.00	
Manganese	0.00319	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-10-1856-5-D**	**10/23/15 12:20**	**Aqueous**	**ICP/MS 03**	**10/26/15**	**10/30/15 05:36**	**151026LA1F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0433	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00159	0.00100	0.000140	1.00	
Lead	0.000103	0.00100	0.0000898	1.00	J
Nickel	0.00218	0.00100	0.000132	1.00	
Selenium	0.000327	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0111	0.00500	0.000479	1.00	
Aluminum	0.0101	0.0500	0.00331	1.00	J
Iron	0.0586	0.0500	0.00926	1.00	
Manganese	0.00264	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-10-1856-7-D**	**10/23/15 14:19**	**Aqueous**	**ICP/MS 03**	**10/26/15**	**10/30/15 05:39**	**151026LA1F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0190	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000455	0.00100	0.000402	1.00	J
Copper	0.00181	0.00100	0.000140	1.00	
Lead	0.000142	0.00100	0.0000898	1.00	J
Nickel	0.000836	0.00100	0.000132	1.00	J
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0171	0.00500	0.000479	1.00	
Aluminum	0.0114	0.0500	0.00331	1.00	J
Iron	0.0525	0.0500	0.00926	1.00	
Manganese	0.00116	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-10-1856-8-D**	**10/23/15 14:36**	**Aqueous**	**ICP/MS 03**	**10/26/15**	**10/30/15 05:43**	**151026LA1F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0549	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000261	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00150	0.00100	0.000132	1.00	
Selenium	0.000496	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0110	0.00500	0.000479	1.00	
Aluminum	0.00453	0.0500	0.00331	1.00	J
Iron	0.0519	0.0500	0.00926	1.00	
Manganese	0.00105	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-10-1856-9-D**	**10/23/15 14:59**	**Aqueous**	**ICP/MS 03**	**10/26/15**	**10/30/15 05:46**	**151026LA1F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	0.000446	0.00100	0.000386	1.00	J
Barium	0.0506	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000656	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00144	0.00100	0.000132	1.00	
Selenium	0.000394	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00915	0.00500	0.000479	1.00	
Aluminum	0.0105	0.0500	0.00331	1.00	J
Iron	0.0511	0.0500	0.00926	1.00	
Manganese	0.00257	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-693-950**	**N/A**	**Aqueous**	**ICP/MS 03**	**10/26/15**	**10/30/15 03:39**	**151026LA1F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	ND	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	ND	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	ND	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	ND	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	ND	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-10-1856-1-D**	**10/23/15 11:46**	**Aqueous**	**Mercury 04**	**10/29/15**	**10/29/15 21:04**	**151029LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Lead	**15-10-1856-2-D**	**10/23/15 12:00**	**Aqueous**	**Mercury 04**	**10/29/15**	**10/29/15 21:06**	**151029LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-10-1856-3-D**	**10/23/15 12:03**	**Aqueous**	**Mercury 04**	**10/29/15**	**10/29/15 21:08**	**151029LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Lead	**15-10-1856-4-D**	**10/23/15 12:24**	**Aqueous**	**Mercury 04**	**10/29/15**	**10/29/15 21:11**	**151029LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-10-1856-5-D**	**10/23/15 12:20**	**Aqueous**	**Mercury 04**	**10/29/15**	**10/29/15 21:13**	**151029LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-10-1856-7-D**	**10/23/15 14:19**	**Aqueous**	**Mercury 04**	**10/29/15**	**10/29/15 21:15**	**151029LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-10-1856-8-D**	**10/23/15 14:36**	**Aqueous**	**Mercury 04**	**10/29/15**	**10/29/15 21:17**	**151029LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-10-1856-9-D**	**10/23/15 14:59**	**Aqueous**	**Mercury 04**	**10/29/15**	**10/29/15 21:24**	**151029LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-763-647**	**N/A**	**Aqueous**	**Mercury 04**	**10/29/15**	**10/29/15 20:22**	**151029LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-10-1856-1-I**	**10/23/15 11:46**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 03:55**	**151029L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	87	50-135	
2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Lead	**15-10-1856-2-I**	**10/23/15 12:00**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 04:09**	**151029L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	109	50-135	
2,4,5,6-Tetrachloro-m-Xylene	87	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-10-1856-3-I**	**10/23/15 12:03**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 04:23**	**151029L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	50-135	
2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Lead	**15-10-1856-4-I**	**10/23/15 12:24**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 04:37**	**151029L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	50-135	
2,4,5,6-Tetrachloro-m-Xylene	85	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-10-1856-5-I**	**10/23/15 12:20**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 04:52**	**151029L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	82	50-135	
2,4,5,6-Tetrachloro-m-Xylene	83	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-10-1856-7-I**	**10/23/15 14:19**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 05:06**	**151029L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	50-135	
2,4,5,6-Tetrachloro-m-Xylene	79	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-10-1856-8-I**	**10/23/15 14:36**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 05:20**	**151029L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	50-135	
2,4,5,6-Tetrachloro-m-Xylene	84	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-10-1856-9-I**	**10/23/15 14:59**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 05:35**	**151029L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	87	50-135	
2,4,5,6-Tetrachloro-m-Xylene	91	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-529-850**	**N/A**	**Aqueous**	**GC 44**	**10/29/15**	**10/29/15 21:20**	**151029L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	88	50-135	
2,4,5,6-Tetrachloro-m-Xylene	92	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-10-1856-1-I**	**10/23/15 11:46**	**Aqueous**	**GC 66**	**10/29/15**	**10/30/15 17:16**	**151029L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	75	50-135	
2,4,5,6-Tetrachloro-m-Xylene	81	50-135	

HCS 240 Lead	15-10-1856-2-I	10/23/15 12:00	Aqueous	GC 66	10/29/15	10/30/15 17:34	151029L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	74	50-135	
2,4,5,6-Tetrachloro-m-Xylene	80	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-10-1856-3-I**	**10/23/15 12:03**	**Aqueous**	**GC 66**	**10/29/15**	**10/30/15 18:58**	**151029L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	76	50-135	
2,4,5,6-Tetrachloro-m-Xylene	79	50-135	

HCS 260 Lead	15-10-1856-4-I	10/23/15 12:24	Aqueous	GC 66	10/29/15	10/30/15 19:16	151029L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	78	50-135	
2,4,5,6-Tetrachloro-m-Xylene	80	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-10-1856-5-I**	**10/23/15 12:20**	**Aqueous**	**GC 66**	**10/29/15**	**10/30/15 19:34**	**151029L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	73	50-135	
2,4,5,6-Tetrachloro-m-Xylene	76	50-135	

HCS 210 Peak	15-10-1856-7-I	10/23/15 14:19	Aqueous	GC 66	10/29/15	10/30/15 19:52	151029L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	79	50-135	
2,4,5,6-Tetrachloro-m-Xylene	81	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-10-1856-8-I**	**10/23/15 14:36**	**Aqueous**	**GC 66**	**10/29/15**	**10/30/15 20:09**	**151029L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	78	50-135	
2,4,5,6-Tetrachloro-m-Xylene	80	50-135	

HCS 250 Peak	15-10-1856-9-I	10/23/15 14:59	Aqueous	GC 66	10/29/15	10/30/15 20:27	151029L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	80	50-135	
2,4,5,6-Tetrachloro-m-Xylene	81	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-533-1100**	**N/A**	**Aqueous**	**GC 66**	**10/29/15**	**10/30/15 11:16**	**151029L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	50-135	
2,4,5,6-Tetrachloro-m-Xylene	81	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-10-1856-1-I**	**10/23/15 11:46**	**Aqueous**	**GC 26**	**10/27/15**	**10/29/15 18:05**	**151027L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	77	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Lead	**15-10-1856-2-I**	**10/23/15 12:00**	**Aqueous**	**GC 26**	**10/27/15**	**10/29/15 18:49**	**151027L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	66	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-10-1856-3-I**	**10/23/15 12:03**	**Aqueous**	**GC 26**	**10/27/15**	**10/29/15 19:33**	**151027L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	83	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Lead	**15-10-1856-4-I**	**10/23/15 12:24**	**Aqueous**	**GC 26**	**10/27/15**	**10/29/15 20:17**	**151027L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	75	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-10-1856-5-I**	**10/23/15 12:20**	**Aqueous**	**GC 26**	**10/27/15**	**10/29/15 21:01**	**151027L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	74	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-10-1856-7-I**	**10/23/15 14:19**	**Aqueous**	**GC 26**	**10/27/15**	**10/29/15 21:45**	**151027L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	74	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-10-1856-8-I**	**10/23/15 14:36**	**Aqueous**	**GC 26**	**10/27/15**	**10/29/15 22:29**	**151027L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	74	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-10-1856-9-I**	**10/23/15 14:59**	**Aqueous**	**GC 26**	**10/27/15**	**10/29/15 23:13**	**151027L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	73	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-963-119**	**N/A**	**Aqueous**	**GC 26**	**10/27/15**	**10/29/15 17:20**	**151027L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	79	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-10-1856-1-I**	**10/23/15 11:46**	**Aqueous**	**GC 40**	**10/26/15**	**11/03/15 21:25**	**151026L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	95	0-123	

HCS 240 Lead	15-10-1856-2-I	10/23/15 12:00	Aqueous	GC 40	10/26/15	11/03/15 21:48	151026L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	104	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-10-1856-3-I**	**10/23/15 12:03**	**Aqueous**	**GC 40**	**10/26/15**	**11/03/15 22:11**	**151026L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	104	0-123	

HCS 260 Lead	15-10-1856-4-I	10/23/15 12:24	Aqueous	GC 40	10/26/15	11/03/15 22:34	151026L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	90	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-10-1856-5-I**	**10/23/15 12:20**	**Aqueous**	**GC 40**	**10/26/15**	**11/03/15 22:57**	**151026L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	87	0-123	

HCS 210 Peak	15-10-1856-7-I	10/23/15 14:19	Aqueous	GC 40	10/26/15	11/03/15 23:20	151026L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	98	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-10-1856-8-I**	**10/23/15 14:36**	**Aqueous**	**GC 40**	**10/26/15**	**11/03/15 23:43**	**151026L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	81	0-123	

HCS 250 Peak	15-10-1856-9-I	10/23/15 14:59	Aqueous	GC 40	10/26/15	11/04/15 00:06	151026L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	83	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-034-665**	**N/A**	**Aqueous**	**GC 40**	**10/26/15**	**11/03/15 18:21**	**151026L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	55	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-10-1856-1-H**	**10/23/15 11:46**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 13:30**	**151030L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	10/24/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1856
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 3 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	74	33-120	
2-Fluorophenol	77	24-120	
Nitrobenzene-d5	67	38-120	
p-Terphenyl-d14	67	41-137	
Phenol-d6	74	16-120	
2,4,6-Tribromophenol	86	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Lead	**15-10-1856-2-H**	**10/23/15 12:00**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 13:49**	**151030L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	10/24/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1856
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 6 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	66	33-120	
2-Fluorophenol	68	24-120	
Nitrobenzene-d5	60	38-120	
p-Terphenyl-d14	61	41-137	
Phenol-d6	66	16-120	
2,4,6-Tribromophenol	74	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-10-1856-3-H**	**10/23/15 12:03**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 14:08**	**151030L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1856
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 9 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	61	33-120	
2-Fluorophenol	62	24-120	
Nitrobenzene-d5	55	38-120	
p-Terphenyl-d14	58	41-137	
Phenol-d6	59	16-120	
2,4,6-Tribromophenol	68	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Lead	**15-10-1856-4-H**	**10/23/15 12:24**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 14:27**	**151030L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	10/24/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1856
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 12 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	65	33-120	
2-Fluorophenol	67	24-120	
Nitrobenzene-d5	58	38-120	
p-Terphenyl-d14	60	41-137	
Phenol-d6	63	16-120	
2,4,6-Tribromophenol	71	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-10-1856-5-G**	**10/23/15 12:20**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 14:45**	**151030L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1856
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 15 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	65	33-120	
2-Fluorophenol	64	24-120	
Nitrobenzene-d5	56	38-120	
p-Terphenyl-d14	64	41-137	
Phenol-d6	61	16-120	
2,4,6-Tribromophenol	75	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-10-1856-7-H**	**10/23/15 14:19**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 15:04**	**151030L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1856
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 18 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	70	33-120	
2-Fluorophenol	71	24-120	
Nitrobenzene-d5	63	38-120	
p-Terphenyl-d14	63	41-137	
Phenol-d6	67	16-120	
2,4,6-Tribromophenol	79	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-10-1856-8-H**	**10/23/15 14:36**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 15:23**	**151030L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1856
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 21 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	66	33-120	
2-Fluorophenol	70	24-120	
Nitrobenzene-d5	61	38-120	
p-Terphenyl-d14	64	41-137	
Phenol-d6	66	16-120	
2,4,6-Tribromophenol	74	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-10-1856-9-H**	**10/23/15 14:59**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 15:42**	**151030L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1856
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 24 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	70	33-120	
2-Fluorophenol	71	24-120	
Nitrobenzene-d5	62	38-120	
p-Terphenyl-d14	65	41-137	
Phenol-d6	68	16-120	
2,4,6-Tribromophenol	78	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-4131**	**N/A**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 16:38**	**151030L11**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.5	1.00	
Benzo (k) Fluoranthene	ND	10	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.7	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.8	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.5	1.00	
Dibenzofuran	ND	10	2.8	1.00	
1,2-Dichlorobenzene	ND	10	3.0	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	10	2.3	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.1	1.00	
Isophorone	ND	10	2.5	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.8	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.1	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.6	1.00	
Phenanthrene	ND	10	2.9	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.8	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1856
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 27 of 27

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	71	33-120	
2-Fluorophenol	73	24-120	
Nitrobenzene-d5	64	38-120	
p-Terphenyl-d14	66	41-137	
Phenol-d6	68	16-120	
2,4,6-Tribromophenol	78	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Lead	**15-10-1856-1-A**	**10/23/15 11:46**	**Aqueous**	**GC/MS JJ**	**10/28/15**	**10/28/15 17:08**	**151028L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	103	78-126	
1,2-Dichloroethane-d4	106	75-135	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Lead	**15-10-1856-2-A**	**10/23/15 12:00**	**Aqueous**	**GC/MS JJ**	**10/28/15**	**10/28/15 17:35**	**151028L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	105	75-135	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Lead	**15-10-1856-3-A**	**10/23/15 12:03**	**Aqueous**	**GC/MS JJ**	**10/28/15**	**10/28/15 18:02**	**151028L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	106	75-135	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Lead	**15-10-1856-4-A**	**10/23/15 12:24**	**Aqueous**	**GC/MS JJ**	**10/28/15**	**10/28/15 18:29**	**151028L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	96	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Lead	**15-10-1856-5-A**	**10/23/15 12:20**	**Aqueous**	**GC/MS JJ**	**10/28/15**	**10/28/15 13:59**	**151028L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	103	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB14	**15-10-1856-6-A**	**10/23/15 19:30**	**Aqueous**	**GC/MS JJ**	**10/28/15**	**10/28/15 13:32**	**151028L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Peak	**15-10-1856-7-A**	**10/23/15 14:19**	**Aqueous**	**GC/MS JJ**	**10/28/15**	**10/28/15 18:56**	**151028L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	12	20	10	1.00	J
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	104	78-126	
1,2-Dichloroethane-d4	106	75-135	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Peak	**15-10-1856-8-A**	**10/23/15 14:36**	**Aqueous**	**GC/MS JJ**	**10/28/15**	**10/28/15 19:23**	**151028L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	107	75-135	
Toluene-d8	96	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Peak	**15-10-1856-9-A**	**10/23/15 14:59**	**Aqueous**	**GC/MS JJ**	**10/28/15**	**10/28/15 19:51**	**151028L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	104	78-126	
1,2-Dichloroethane-d4	106	75-135	
Toluene-d8	95	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-18614**	**N/A**	**Aqueous**	**GC/MS JJ**	**10/28/15**	**10/28/15 13:06**	**151028L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	100	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 210 Lead	**15-10-1856-1**	**10/23/15 11:46**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.16	0.050	0.020	1.00		mg/L	N/A	11/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	43.0	1.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	43.0	1.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	158	1.00	0.870	1.00		mg/L	10/29/15	10/29/15	SM 2540 C
Solids, Total Suspended (24)	206	1.00	0.829	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.27	0.01	0.01	1.00	BV,BU	pH units	N/A	10/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	2.4	0.50	0.28	1.00		mg/L	10/30/15	10/30/15	SM 4500 N Org B
Carbon, Total Organic (24)	8.8	0.50	0.24	1.00		mg/L	11/05/15	11/05/15	SM 5310 B
Carbon, Dissolved Organic (24)	8.9	0.50	0.24	1.00		mg/L	10/24/15	10/24/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 240 Lead	**15-10-1856-2**	**10/23/15 12:00**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.12	0.050	0.020	1.00		mg/L	N/A	11/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	164	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	164	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	195	1.00	0.870	1.00		mg/L	10/29/15	10/29/15	SM 2540 C
Solids, Total Suspended (24)	58	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.53	0.01	0.01	1.00	BV,BU	pH units	N/A	10/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	1.1	0.50	0.28	1.00		mg/L	10/30/15	10/30/15	SM 4500 N Org B
Carbon, Total Organic (24)	5.9	0.50	0.24	1.00		mg/L	11/05/15	11/05/15	SM 5310 B
Carbon, Dissolved Organic (24)	8.4	0.50	0.24	1.00		mg/L	10/24/15	10/24/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 250 Lead	**15-10-1856-3**	**10/23/15 12:03**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.091	0.050	0.020	1.00		mg/L	N/A	11/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	195	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	195	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	300	1.00	0.870	1.00		mg/L	10/29/15	10/29/15	SM 2540 C
Solids, Total Suspended (24)	162	1.00	0.829	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.56	0.01	0.01	1.00	BV,BU	pH units	N/A	10/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	1.1	0.50	0.28	1.00		mg/L	10/30/15	10/30/15	SM 4500 N Org B
Carbon, Total Organic (24)	5.4	0.50	0.24	1.00		mg/L	11/05/15	11/05/15	SM 5310 B
Carbon, Dissolved Organic (24)	6.1	0.50	0.24	1.00		mg/L	10/24/15	10/24/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 260 Lead	**15-10-1856-4**	**10/23/15 12:24**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.032	0.050	0.020	1.00	J	mg/L	N/A	11/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	227	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	227	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	490	1.00	0.870	1.00		mg/L	10/29/15	10/29/15	SM 2540 C
Solids, Total Suspended (24)	30	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.68	0.01	0.01	1.00	BV,BU	pH units	N/A	10/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.84	0.50	0.28	1.00		mg/L	10/30/15	10/30/15	SM 4500 N Org B
Carbon, Total Organic (24)	0.73	0.50	0.24	1.00		mg/L	11/05/15	11/05/15	SM 5310 B
Carbon, Dissolved Organic (24)	0.79	0.50	0.24	1.00		mg/L	10/24/15	10/24/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 270 Lead	**15-10-1856-5**	**10/23/15 12:20**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.036	0.050	0.020	1.00	J	mg/L	N/A	11/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	183	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	183	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	360	1.00	0.870	1.00		mg/L	10/29/15	10/29/15	SM 2540 C
Solids, Total Suspended (24)	9.9	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.71	0.01	0.01	1.00	BV,BU	pH units	N/A	10/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.70	0.50	0.28	1.00		mg/L	10/30/15	10/30/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/05/15	11/05/15	SM 5310 B
Carbon, Dissolved Organic (24)	ND	0.50	0.24	1.00		mg/L	10/24/15	10/24/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 210 Peak	**15-10-1856-7**	**10/23/15 14:19**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.36	0.050	0.020	1.00		mg/L	N/A	11/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	82.0	1.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	82.0	1.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	265	1.00	0.870	1.00		mg/L	10/29/15	10/29/15	SM 2540 C
Solids, Total Suspended (24)	17	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.69	0.01	0.01	1.00	BV,BU	pH units	N/A	10/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	1.3	0.50	0.28	1.00		mg/L	10/30/15	10/30/15	SM 4500 N Org B
Carbon, Total Organic (24)	12	0.50	0.24	1.00		mg/L	11/05/15	11/05/15	SM 5310 B
Carbon, Dissolved Organic (24)	10	0.50	0.24	1.00		mg/L	10/24/15	10/24/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 240 Peak	**15-10-1856-8**	**10/23/15 14:36**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	11/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	166	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	166	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	360	1.00	0.870	1.00		mg/L	10/29/15	10/29/15	SM 2540 C
Solids, Total Suspended (24)	6.1	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.68	0.01	0.01	1.00	BV,BU	pH units	N/A	10/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.56	0.50	0.28	1.00		mg/L	10/30/15	10/30/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/05/15	11/05/15	SM 5310 B
Carbon, Dissolved Organic (24)	ND	0.50	0.24	1.00		mg/L	10/24/15	10/24/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 250 Peak	**15-10-1856-9**	**10/23/15 14:59**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.021	0.050	0.020	1.00	J	mg/L	N/A	11/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	232	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	232	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	480	1.00	0.870	1.00		mg/L	10/29/15	10/29/15	SM 2540 C
Solids, Total Suspended (24)	3.1	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.65	0.01	0.01	1.00	BV,BU	pH units	N/A	10/24/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	1.3	0.50	0.28	1.00		mg/L	10/30/15	10/30/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/05/15	11/05/15	SM 5310 B
Carbon, Dissolved Organic (24)	ND	0.50	0.24	1.00		mg/L	10/24/15	10/24/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
Method Blank		**N/A**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	11/09/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	ND	1.0	0.87	1.00		mg/L	10/29/15	10/29/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	10/30/15	10/30/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/05/15	11/05/15	SM 5310 B
Carbon, Dissolved Organic (24)	ND	0.50	0.24	1.00		mg/L	10/24/15	10/24/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: N/A
Method: EPA 300.0

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 250 Peak	**Sample**	**Aqueous**	**IC 15**	**N/A**	**10/24/15 21:39**	**151024S1**
HCS 250 Peak	**Matrix Spike**	**Aqueous**	**IC 15**	**N/A**	**10/24/15 22:53**	**151024S1**
HCS 250 Peak	**Matrix Spike Duplicate**	**Aqueous**	**IC 15**	**N/A**	**10/24/15 23:11**	**151024S1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Fluoride	0.1862	2.500	2.538	94	2.539	94	80-120	0	0-20	
Chloride	15.90	50.00	67.55	103	67.57	103	80-120	0	0-20	
Bromide	ND	5.000	5.036	101	5.042	101	80-120	0	0-20	
Nitrate (as N)	1.598	5.000	6.715	102	6.700	102	80-120	0	0-20	
Sulfate	23.92	50.00	77.79	108	77.64	107	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-10-1947-7	**Sample**	**Aqueous**	**ACA 1**	**N/A**	**11/09/15 17:16**	**151109S02**
15-10-1947-7	**Matrix Spike**	**Aqueous**	**ACA 1**	**N/A**	**11/09/15 17:16**	**151109S02**
15-10-1947-7	**Matrix Spike Duplicate**	**Aqueous**	**ACA 1**	**N/A**	**11/09/15 17:16**	**151109S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	ND	0.2000	0.2580	129	0.2465	123	90-110	5	0-25	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 240 Peak	**Sample**	**Aqueous**	**TOC 8**	**11/05/15**	**11/05/15 23:04**	**F1105TOCS1**
HCS 240 Peak	**Matrix Spike**	**Aqueous**	**TOC 8**	**11/05/15**	**11/05/15 23:04**	**F1105TOCS1**
HCS 240 Peak	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**11/05/15**	**11/05/15 23:04**	**F1105TOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	ND	10.00	17.80	178	19.00	190	31-145	7	0-23	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	10/24/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1856
San Antonio, TX 78249-1618	Preparation:	N/A
	Method:	SM 5310 B
Project: EAA 27122		Page 4 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-10-1826-2	**Sample**	**Aqueous**	**TOC 8**	**10/24/15**	**10/24/15 17:36**	**F1024DOCS2**
15-10-1826-2	**Matrix Spike**	**Aqueous**	**TOC 8**	**10/24/15**	**10/24/15 17:36**	**F1024DOCS2**
15-10-1826-2	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**10/24/15**	**10/24/15 17:36**	**F1024DOCS2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	11.60	50.00	65.50	108	67.00	111	31-145	2	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	10/24/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1856
San Antonio, TX 78249-1618	Preparation:	EPA 3005A Filt.
	Method:	EPA 6010B
Project: EAA 27122		Page 5 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 270 Lead	**Sample**	**Aqueous**	**ICP 7300**	**10/26/15**	**10/30/15 20:57**	**151026SA4A**
HCS 270 Lead	**Matrix Spike**	**Aqueous**	**ICP 7300**	**10/26/15**	**10/30/15 20:40**	**151026SA4A**
HCS 270 Lead	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**10/26/15**	**10/30/15 20:42**	**151026SA4A**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Calcium	61.15	0.5000	61.77	4X	62.24	4X	77-113	4X	0-11	Q
Magnesium	13.25	0.5000	13.68	4X	13.59	4X	56-140	4X	0-11	Q
Potassium	2.500	5.000	7.555	101	7.526	101	83-131	0	0-7	
Sodium	11.07	5.000	16.21	103	16.35	105	73-127	1	0-9	
Strontium	0.5118	0.5000	1.034	104	1.035	105	81-123	0	0-6	
Silicon	4.818	0.5000	5.262	4X	5.241	4X	24-180	4X	0-15	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants		Date Received:	10/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1856
San Antonio, TX 78249-1618		Preparation:	EPA 3020A Total
		Method:	EPA 6020
Project: EAA 27122			Page 6 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-10-1826-4	**Sample**	**Aqueous**	**ICP/MS 03**	**10/26/15**	**10/30/15 04:47**	**151026SA1**
15-10-1826-4	**Matrix Spike**	**Aqueous**	**ICP/MS 03**	**10/26/15**	**10/30/15 03:46**	**151026SA1**
15-10-1826-4	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 03**	**10/26/15**	**10/30/15 03:50**	**151026SA1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.1000	0.1031	103	0.1007	101	85-133	2	0-11	
Arsenic	0.005215	0.1000	0.1006	95	0.09807	93	73-127	3	0-11	
Barium	0.1099	0.1000	0.2068	97	0.1907	81	74-128	8	0-10	
Beryllium	ND	0.1000	0.07817	78	0.07682	77	56-122	2	0-11	
Cadmium	ND	0.1000	0.09293	93	0.09018	90	84-114	3	0-8	
Chromium	0.01641	0.1000	0.1265	110	0.1230	107	73-133	3	0-11	
Copper	0.003928	0.1000	0.1020	98	0.09896	95	72-108	3	0-10	
Lead	ND	0.1000	0.1161	116	0.1134	113	79-121	2	0-10	
Nickel	0.01517	0.1000	0.1236	108	0.1112	96	68-122	11	0-10	4
Selenium	ND	0.1000	0.07781	78	0.07515	75	59-125	3	0-12	
Silver	ND	0.05000	0.04182	84	0.03878	78	68-128	8	0-14	
Thallium	ND	0.1000	0.1133	113	0.1114	111	73-121	2	0-11	
Zinc	0.005715	0.1000	0.08870	83	0.08288	77	43-145	7	0-39	
Aluminum	0.2697	0.1000	0.3112	42	0.3196	50	47-161	3	0-24	3
Iron	1.181	5.100	6.660	107	6.644	107	27-201	0	0-24	
Manganese	0.8608	0.1000	0.8803	4X	0.8503	4X	72-126	4X	0-42	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 7470A Filt.
Method: EPA 7470A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-10-1850-3	**Sample**	**Aqueous**	**Mercury 04**	**10/29/15**	**10/29/15 20:31**	**151029SA3**
15-10-1850-3	**Matrix Spike**	**Aqueous**	**Mercury 04**	**10/29/15**	**10/29/15 20:33**	**151029SA3**
15-10-1850-3	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 04**	**10/29/15**	**10/29/15 20:35**	**151029SA3**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.009809	98	0.009738	97	55-133	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 270 Lead	**Sample**	**Aqueous**	**GC/MS JJ**	**10/28/15**	**10/28/15 13:59**	**151028S005**
HCS 270 Lead	**Matrix Spike**	**Aqueous**	**GC/MS JJ**	**10/28/15**	**10/28/15 11:18**	**151028S005**
HCS 270 Lead	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS JJ**	**10/28/15**	**10/28/15 11:45**	**151028S005**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	47.46	95	47.55	95	74-122	0	0-21	
Carbon Tetrachloride	ND	50.00	46.89	94	47.36	95	60-144	1	0-21	
Chlorobenzene	ND	50.00	50.73	101	50.94	102	73-120	0	0-22	
1,2-Dibromoethane	ND	50.00	47.99	96	48.97	98	80-122	2	0-20	
1,2-Dichlorobenzene	ND	50.00	50.69	101	51.67	103	70-120	2	0-26	
1,2-Dichloroethane	ND	50.00	45.75	92	46.85	94	64-142	2	0-20	
1,1-Dichloroethene	ND	50.00	46.08	92	47.10	94	52-136	2	0-21	
Ethylbenzene	ND	50.00	52.07	104	51.88	104	77-125	0	0-24	
Toluene	ND	50.00	47.89	96	48.45	97	72-126	1	0-23	
Trichloroethene	ND	50.00	47.70	95	48.27	97	74-128	1	0-22	
Vinyl Chloride	ND	50.00	49.34	99	50.73	101	67-133	3	0-20	
p/m-Xylene	ND	100.0	104.3	104	104.0	104	63-129	0	0-25	
o-Xylene	ND	50.00	51.83	104	52.01	104	62-128	0	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	43.00	86	44.85	90	68-134	4	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3020A Total
Method: EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
15-10-1826-4	**Sample**	**Aqueous**	**ICP/MS 03**	**10/26/15 00:00**	**10/30/15 04:47**	**151026SA1**
15-10-1826-4	**PDS**	**Aqueous**	**ICP/MS 03**	**10/26/15 00:00**	**10/30/15 04:36**	**151026SA1**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Antimony	ND	0.1000	0.09345	93	75-125	
Arsenic	0.005215	0.1000	0.09921	94	75-125	
Barium	0.1099	0.1000	0.2055	96	75-125	
Beryllium	ND	0.1000	0.08161	82	75-125	
Cadmium	ND	0.1000	0.08386	84	75-125	
Chromium	0.01641	0.1000	0.1158	99	75-125	
Copper	0.003928	0.1000	0.1010	97	75-125	
Lead	ND	0.1000	0.1075	107	75-125	
Nickel	0.01517	0.1000	0.1144	99	75-125	
Selenium	ND	0.1000	0.07543	75	75-125	
Silver	ND	0.05000	0.03921	78	75-125	
Thallium	ND	0.1000	0.1051	105	75-125	
Zinc	0.005715	0.1000	0.08520	79	75-125	
Aluminum	0.2697	0.1000	0.3689	99	75-125	
Iron	1.181	5.100	6.733	109	75-125	
Manganese	0.8608	0.1000	0.9460	4X	75-125	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-10-2300-2	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 14:09**	**F1105ALKD1**
15-10-2300-2	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 14:09**	**F1105ALKD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	378.0	374.0	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-10-2300-2	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 14:09**	**F1105HCOD1**
15-10-2300-2	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 14:09**	**F1105HCOD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Bicarbonate (as CaCO3)	378.0	374.0	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-10-2300-2	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 14:09**	**F1105CO3D1**
15-10-2300-2	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 14:09**	**F1105CO3D1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Carbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-10-1826-4	**Sample**	**Aqueous**	**SC 2**	**10/29/15 00:00**	**10/29/15 16:00**	**F1029TDSD1**
15-10-1826-4	**Sample Duplicate**	**Aqueous**	**SC 2**	**10/29/15 00:00**	**10/29/15 16:00**	**F1029TDSD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	2100	2155	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants		Date Received:	10/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1856
San Antonio, TX 78249-1618		Preparation:	N/A
		Method:	SM 2540 D
Project: EAA 27122			Page 5 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-10-1748-2	**Sample**	**Aqueous**	**N/A**	**10/30/15 00:00**	**10/30/15 19:30**	**F1030TSSD2**
15-10-1748-2	**Sample Duplicate**	**Aqueous**	**N/A**	**10/30/15 00:00**	**10/30/15 19:30**	**F1030TSSD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Suspended	396.0	416.0	5	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: N/A
Method: SM 4500 H+ B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HCS 210 Lead	**Sample**	**Aqueous**	**PH 1**	**N/A**	**10/24/15 15:40**	**F1024PHD1**
HCS 210 Lead	**Sample Duplicate**	**Aqueous**	**PH 1**	**N/A**	**10/24/15 15:40**	**F1024PHD1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	7.270	7.290	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants		Date Received:	10/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1856
San Antonio, TX 78249-1618		Preparation:	N/A
		Method:	SM 4500 N Org B
Project: EAA 27122			Page 7 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-10-2174-3	**Sample**	**Aqueous**	**BUR05**	**10/30/15 00:00**	**10/30/15 16:21**	**F1030TKND2**
15-10-2174-3	**Sample Duplicate**	**Aqueous**	**BUR05**	**10/30/15 00:00**	**10/30/15 16:21**	**F1030TKND2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Total Kjeldahl Nitrogen	54.46	54.04	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	10/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1856
San Antonio, TX 78249-1618		Preparation:	N/A
		Method:	EPA 300.0
Project: EAA 27122			Page 1 of 16

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-906-6192	**LCS**	**Aqueous**	**IC 15**	**N/A**	**10/24/15 15:59**	**151024L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Fluoride	2.500	2.530	101	90-110	
Chloride	50.00	48.71	97	90-110	
Bromide	5.000	4.899	98	90-110	
Nitrate (as N)	5.000	4.865	97	90-110	
Sulfate	50.00	48.42	97	90-110	

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RPD: Relative Percent Difference. CL: Control Limits

eurofins | Calscience

Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-739-131	**LCS**	**Aqueous**	**ACA 1**	**N/A**	**11/09/15 17:16**	**151109L02**
099-12-739-131	**LCSD**	**Aqueous**	**ACA 1**	**N/A**	**11/09/15 17:16**	**151109L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.2000	0.1915	96	0.1917	96	90-110	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-859-848	**LCS**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 14:09**	**F1105ALKB1**
099-15-859-848	**LCSD**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 14:09**	**F1105ALKB1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	100.0	99.00	99	99.00	99	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-180-4818	**LCS**	**Aqueous**	**SC 2**	**10/29/15**	**10/29/15 16:00**	**F1029TDSB1**
099-12-180-4818	**LCSD**	**Aqueous**	**SC 2**	**10/29/15**	**10/29/15 16:00**	**F1029TDSB1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100.0	105.0	105	110.0	110	80-120	5	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-010-7378	**LCS**	**Aqueous**	**N/A**	**10/30/15**	**10/30/15 19:30**	**F1030TSSL2**
099-09-010-7378	**LCSD**	**Aqueous**	**N/A**	**10/30/15**	**10/30/15 19:30**	**F1030TSSL2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Suspended	100.0	97.00	97	98.00	98	80-120	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-5777	**LCS**	**Aqueous**	**TOC 8**	**11/05/15**	**11/05/15 23:04**	**F1105TOCL1**
099-05-097-5777	**LCSD**	**Aqueous**	**TOC 8**	**11/05/15**	**11/05/15 23:04**	**F1105TOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	10.00	9.960	100	10.40	104	80-120	4	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-115-1465	**LCS**	**Aqueous**	**TOC 8**	**10/24/15**	**10/24/15 21:49**	**F1024DOCL2**
099-05-115-1465	**LCSD**	**Aqueous**	**TOC 8**	**10/24/15**	**10/24/15 21:49**	**F1024DOCL2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	10.00	10.80	108	11.50	115	80-120	6	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	10/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1856
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B
Project: EAA 27122			Page 8 of 16

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-683-1457	**LCS**	**Aqueous**	**ICP 7300**	**10/26/15**	**10/30/15 19:09**	**151026LA4**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Calcium	0.5000	0.4763	95	80-120	
Magnesium	0.5000	0.5002	100	80-120	
Potassium	5.000	4.716	94	80-120	
Sodium	5.000	4.826	97	80-120	
Strontium	0.5000	0.4954	99	80-120	
Silicon	0.5000	0.4716	94	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	10/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1856
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: EAA 27122			Page 9 of 16

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-693-950	**LCS**	**Aqueous**	**ICP/MS 03**	**10/26/15**	**10/30/15 03:43**	**151026LA1F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.1000	0.09937	99	80-120	73-127	
Arsenic	0.1000	0.09725	97	80-120	73-127	
Barium	0.1000	0.09679	97	80-120	73-127	
Beryllium	0.1000	0.1015	102	80-120	73-127	
Cadmium	0.1000	0.09851	99	80-120	73-127	
Chromium	0.1000	0.09831	98	80-120	73-127	
Copper	0.1000	0.1022	102	80-120	73-127	
Lead	0.1000	0.09866	99	80-120	73-127	
Nickel	0.1000	0.09921	99	80-120	73-127	
Selenium	0.1000	0.09641	96	80-120	73-127	
Silver	0.05000	0.04342	87	80-120	73-127	
Thallium	0.1000	0.09668	97	80-120	73-127	
Zinc	0.1000	0.1002	100	80-120	73-127	
Aluminum	0.1000	0.09933	99	80-120	73-127	
Iron	5.100	5.186	102	80-120	73-127	
Manganese	0.1000	0.09909	99	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	10/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1856
San Antonio, TX 78249-1618		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A
Project: EAA 27122			Page 10 of 16

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-763-647	**LCS**	**Aqueous**	**Mercury 04**	**10/29/15**	**10/29/15 20:24**	**151029LA3F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.009787	98	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8081A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-850	**LCS**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 13:00**	**151029L02**
099-12-529-850	**LCSD**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 13:14**	**151029L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.4916	98	0.5149	103	50-135	36-149	5	0-25	
Gamma-BHC	0.5000	0.5020	100	0.5372	107	50-135	36-149	7	0-25	
Beta-BHC	0.5000	0.4658	93	0.5019	100	50-135	36-149	7	0-25	
Heptachlor	0.5000	0.4412	88	0.4614	92	50-135	36-149	4	0-25	
Delta-BHC	0.5000	0.4988	100	0.5145	103	50-135	36-149	3	0-25	
Aldrin	0.5000	0.3977	80	0.4112	82	50-135	36-149	3	0-25	
Heptachlor Epoxide	0.5000	0.4588	92	0.4810	96	50-135	36-149	5	0-25	
Endosulfan I	0.5000	0.4614	92	0.4850	97	50-135	36-149	5	0-25	
Dieldrin	0.5000	0.4796	96	0.5024	100	50-135	36-149	5	0-25	
4,4'-DDE	0.5000	0.4696	94	0.4895	98	50-135	36-149	4	0-25	
Endrin	0.5000	0.5846	117	0.6066	121	50-135	36-149	4	0-25	
Endrin Aldehyde	0.5000	0.4422	88	0.4500	90	50-135	36-149	2	0-25	
4,4'-DDD	0.5000	0.4761	95	0.4979	100	50-135	36-149	4	0-25	
Endosulfan II	0.5000	0.4734	95	0.4940	99	50-135	36-149	4	0-25	
4,4'-DDT	0.5000	0.4900	98	0.5154	103	50-135	36-149	5	0-25	
Endosulfan Sulfate	0.5000	0.4892	98	0.4970	99	50-135	36-149	2	0-25	
Methoxychlor	0.5000	0.5550	111	0.5500	110	50-135	36-149	1	0-25	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8082

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1100	**LCS**	**Aqueous**	**GC 66**	**10/29/15**	**10/30/15 10:41**	**151029L03**
099-12-533-1100	**LCSD**	**Aqueous**	**GC 66**	**10/29/15**	**10/30/15 10:59**	**151029L03**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	1.821	91	1.965	98	50-135	8	0-25	
Aroclor-1260	2.000	2.035	102	2.218	111	50-135	9	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8141A

Project: EAA 27122

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-963-119	**LCS**	**Aqueous**	**GC 26**	**10/27/15**	**10/29/15 15:52**	**151027L14**
099-15-963-119	**LCSD**	**Aqueous**	**GC 26**	**10/27/15**	**10/29/15 16:36**	**151027L14**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	0.04000	0.03598	90	0.03538	88	30-130	13-147	2	0-30	
Bolstar	0.04000	0.04100	102	0.04076	102	30-130	13-147	1	0-30	
Chlorpyrifos	0.04000	0.03870	97	0.03957	99	30-130	13-147	2	0-30	
Coumaphos	0.04000	0.03569	89	0.03607	90	30-130	13-147	1	0-30	
Diazinon	0.04000	0.04221	106	0.04391	110	30-130	13-147	4	0-30	
Disulfoton	0.04000	0.04147	104	0.04173	104	30-130	13-147	1	0-30	
Ethoprop	0.04000	0.04319	108	0.04444	111	30-130	13-147	3	0-30	
Fensulfothion	0.04000	0.04216	105	0.04249	106	30-130	13-147	1	0-30	
Fenthion	0.04000	0.04163	104	0.04243	106	30-130	13-147	2	0-30	
Merphos	0.04000	0.04436	111	0.04425	111	30-130	13-147	0	0-30	
Methyl Parathion	0.04000	0.03863	97	0.03946	99	30-130	13-147	2	0-30	
Phorate	0.04000	0.04844	121	0.04948	124	30-130	13-147	2	0-30	
Ronnel	0.04000	0.03579	89	0.03690	92	30-130	13-147	3	0-30	
Stirophos	0.04000	0.03327	83	0.03405	85	30-130	13-147	2	0-30	
Tokuthion	0.04000	0.03606	90	0.03654	91	30-130	13-147	1	0-30	
Trichloronate	0.04000	0.03931	98	0.04024	101	30-130	13-147	2	0-30	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 8151A
Method: EPA 8151A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-034-665	**LCS**	**Aqueous**	**GC 40**	**10/26/15**	**11/03/15 17:34**	**151026L01**
095-01-034-665	**LCSD**	**Aqueous**	**GC 40**	**10/26/15**	**11/03/15 17:58**	**151026L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	20.00	9.110	46	10.28	51	30-130	12	0-30	
2,4,5-T	2.000	1.305	65	1.410	70	30-130	8	0-30	
2,4-DB	20.00	9.355	47	10.66	53	30-130	13	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/24/15
Work Order: 15-10-1856
Preparation: EPA 3510C
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-4131	**LCS**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 16:00**	**151030L11**
095-01-003-4131	**LCSD**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 16:19**	**151030L11**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	200.0	146.9	73	151.9	76	61-120	51-130	3	0-20	
Acenaphthylene	200.0	141.1	71	147.6	74	55-120	44-131	4	0-20	
Butyl Benzyl Phthalate	200.0	137.7	69	144.3	72	56-122	45-133	5	0-20	
4-Chloro-3-Methylphenol	200.0	140.3	70	147.6	74	52-120	41-131	5	0-20	
2-Chlorophenol	200.0	146.5	73	154.0	77	47-120	35-132	5	0-20	
1,4-Dichlorobenzene	200.0	140.1	70	144.5	72	36-120	22-134	3	0-20	
Dimethyl Phthalate	200.0	138.4	69	144.9	72	60-120	50-130	5	0-20	
2,4-Dinitrotoluene	200.0	147.7	74	157.5	79	61-121	51-131	6	0-20	
Fluorene	200.0	144.4	72	153.6	77	67-120	58-129	6	0-20	
N-Nitroso-di-n-propylamine	200.0	139.5	70	149.0	75	39-123	25-137	7	0-20	
Naphthalene	200.0	140.4	70	147.0	73	54-120	43-131	5	0-20	
4-Nitrophenol	200.0	136.1	68	140.8	70	14-120	0-138	3	0-20	
Pentachlorophenol	200.0	144.6	72	146.4	73	31-127	15-143	1	0-20	
Phenol	200.0	146.4	73	153.6	77	17-120	0-137	5	0-20	
Pyrene	200.0	140.2	70	146.5	73	58-124	47-135	4	0-20	
1,2,4-Trichlorobenzene	200.0	139.6	70	143.7	72	49-120	37-132	3	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	10/24/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1856
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 16 of 16

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-18614	**LCS**	**Aqueous**	**GC/MS JJ**	**10/28/15**	**10/28/15 10:44**	**151028L006**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	44.01	88	80-120	73-127	
Carbon Tetrachloride	50.00	44.89	90	67-139	55-151	
Chlorobenzene	50.00	48.40	97	78-120	71-127	
1,2-Dibromoethane	50.00	45.93	92	80-120	73-127	
1,2-Dichlorobenzene	50.00	50.53	101	63-129	52-140	
1,2-Dichloroethane	50.00	44.07	88	70-130	60-140	
1,1-Dichloroethene	50.00	45.85	92	66-126	56-136	
Ethylbenzene	50.00	49.58	99	80-123	73-130	
Toluene	50.00	44.78	90	80-120	73-127	
Trichloroethene	50.00	46.04	92	80-122	73-129	
Vinyl Chloride	50.00	45.14	90	70-130	60-140	
p/m-Xylene	100.0	100.0	100	75-123	67-131	
o-Xylene	50.00	49.25	98	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	40.72	81	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-10-1856 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 300.0	N/A	1027	IC 15	1
EPA 365.1	N/A	735	ACA 1	1
EPA 6010B	EPA 3005A Filt.	935	ICP 7300	1
EPA 6020	EPA 3005A Filt.	598	ICP/MS 03	1
EPA 7470A	EPA 7470A Filt.	915	Mercury 04	1
EPA 8081A	EPA 3510C	669	GC 44	1
EPA 8082	EPA 3510C	669	GC 66	1
EPA 8141A	EPA 3510C	960	GC 26	1
EPA 8151A	EPA 8151A	669	GC 40	1
EPA 8260B	EPA 5030C	486	GC/MS JJ	2
EPA 8270C	EPA 3510C	923	GC/MS TT	1
SM 2320B	N/A	688	PH1/BUR03	1
SM 2540 C	N/A	689	SC 2	1
SM 2540 D	N/A	689	N/A	1
SM 4500 H+ B	N/A	650	PH 1	1
SM 4500 N Org B	N/A	685	BUR05	1
SM 5310 B	N/A	735	TOC 8	1

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Glossary of Terms and Qualifiers

Work Order: 15-10-1856 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **15-10-1856**

DATE: 10/23/15

PAGE: 1 OF 1

LABORATORY CLIENT: SWCA Environmental Consultants

ADDRESS: 6200 UTSA Blvd. Suite 102

CITY: San Antonio STATE: TX ZIP: 78249-1618

TEL: 210.877.2847 E-MAIL: PPearce@swca.com

CLIENT PROJECT NAME / NUMBER: EAA 27122

P.O. NO.:

PROJECT CONTACT: Philip Pearce

SAMPLER(S): (PRINT) Philip Pearce, Jenna Cantwell, Jennifer Moreland, + Brittany Rios

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 10 Days (standard)

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Samples for EPA 6010B, EPA 6020, and EPA 7470 Metals are field filtered
EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn
Please also analyze each sample for pH.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 6010B (Si, Ca, Mg, K, Na, Sr)	EPA 6020 (See Comments)	EPA 7470A Mercury	EPA 1694 (M) Caffeine	EPA 8081A Organochlorine Pesticides	EPA 8082 PCB Aroclors	EPA 8141A Organophosphorus Pest	EPA 8151A Chlorinated Herbicides	EPA 8270C Semi-Volatile Organics	EPA 8260B Volatile Organics	EPA 300 Anions (F, Cl, Br, NO3, SO4, CO3)	EPA 365.1 Total Phosphorus	SM 2320B Alkalinity: Total, Bicarb, Carb	SM 5310B TOC	SM 5310B DOC	SM 5310B Solids, Total Dissolved	SM 4500 N Org B TKN	EPA 160.2 TSS
1	HCS 210 Lead	10/23/15	11:46	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
2	HCS 240 Lead	10/23/15	12:00	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
3	HCS 250 Lead	10/23/15	12:03	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4	HCS 260 Lead	10/23/15	12:24	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5	HCS 270 Lead	10/23/15	12:20	NPW	11 ~~9~~	2	7 9	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
6	TB14	10/23/15	19:30	NPW	BR 1		BR 1											x								
7	HCS210 PEAK	10/23/15	14:19	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8	HCS 240 PEAK	10/23/15	14:36	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
9	HCS250 PEAK	10/23/15	14:59	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

Relinquished by: (Signature) Philip Pearce	Received by: (Signature/Affiliation)	Date: 10/23/15	Time: 19:35
Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC	Date: 10/24/15	Time: 11:40
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2/14 Revision

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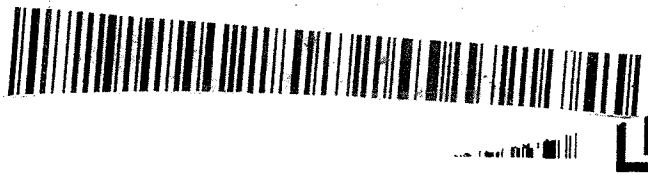

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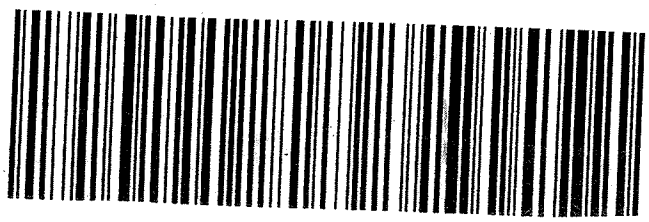

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WORK ORDER NUMBER: 15-10- 1856

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 8

CLIENT: SWCA Environmental Consultants

DATE: 10 / 24 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 3.5 °C (w/ CF): 3.1 °C; ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 862

CUSTODY SEAL:

Cooler ☒ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 862

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A Checked by: 778

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☒	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☒	☐	☐
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and in good condition	☐	☒	☐
Proper containers for analyses requested	☒	☐	☐
Sufficient volume/mass for analyses requested	☒	☐	☐
Samples received within holding time	☒	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☒ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☒	☐
Proper preservation chemical(s) noted on COC and/or sample container	☒	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☒	☐	☐
☒ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE: (Trip Blank Lot Number: 150831 A)

Aqueous: ☐ VOA ☒ 3 VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☒ 2 250CGB**s** ☐ 250PB ☒ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☒ 1AGB ☐ 1AGB**na$_2$** ☒ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☒ 2.5 gallon ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 778

Reviewed by: 862

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WORK ORDER NUMBER: 15-10- 1856

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 8

CLIENT: SWCA Environmental Consultants

DATE: 10 / 24 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 3.4 °C (w/ CF): 3.0 °C; ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 862

CUSTODY SEAL:

Cooler ☒ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 862

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A Checked by: 728

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☒	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☒	☐	☐
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and in good condition	☒	☐	☐
Proper containers for analyses requested	☒	☐	☐
Sufficient volume/mass for analyses requested	☒	☐	☐
Samples received within holding time	☒	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☒ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☒
Proper preservation chemical(s) noted on COC and/or sample container	☒	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☒	☐	☐
☒ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☒ VOAh 3 ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☒ 250CGB**s** 3 ☐ 250PB ☒ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☒ 1AGB ☐ 1AGB**na**$_2$ ☒ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☒ 125 glass ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 728

Reviewed by: 862

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WORK ORDER NUMBER: 15-10- 1856

SAMPLE RECEIPT CHECKLIST

COOLER 3 OF 8

CLIENT: SWCA Environmental Consultants

DATE: 10 / 24 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 3.7 °C (w/ CF): 3.3 °C; ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: BB2

CUSTODY SEAL:

Cooler ☒ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: BB2

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A Checked by: TT8

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☒	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☒	☐	☐
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and in good condition	☒	☐	☐
Proper containers for analyses requested	☒	☐	☐
Sufficient volume/mass for analyses requested	☒	☐	☐
Samples received within holding time	☒	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☒ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☒	☐
Proper preservation chemical(s) noted on COC and/or sample container	☒	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☒	☐	☐
☒ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☒ 3 VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☒ 250CGB**s** ☐ 250PB ☒ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☒ 1AGB ☐ 1AGB**na$_2$** ☒ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☒ 2.5 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: TT8

Reviewed by: BB2

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WORK ORDER NUMBER: 15-10- 1856

SAMPLE RECEIPT CHECKLIST

COOLER 4 OF 8

CLIENT: SWCA Environmental Consultants

DATE: 10 / 24 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 3.5 °C (w/ CF): 3.1 °C; ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 862

CUSTODY SEAL:

Cooler ☒ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 862

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A Checked by: 228

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☒ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☒	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☒ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☒ 3 VOAh ☐ VOAna$_2$ ☐ 100PJ ☐ 100PJna$_2$ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☒ 2 250CGBs ☐ 250PB ☒ 250PBnf ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☒ 1AGB ☐ 1AGBna$_2$ ☒ 1AGBs ☐ 1PB ☐ 1PBna ☒ 2.5 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 228

Reviewed by: 862

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WORK ORDER NUMBER: 15-10- 1856

SAMPLE RECEIPT CHECKLIST

COOLER 5 OF 8

CLIENT: SWCA Environmental Consultants

DATE: 10 / 24 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 3.2 °C (w/ CF): 2.8 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 862

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 862

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 778

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh 3 ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☑ 250CGBs 2 ☐ 250PB ☑ 250PBnf ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☑ 1AGB ☐ 1AGBna_2 ☑ 1AGBs ☐ 1PB ☐ 1PBna ☑ 2.5gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 778

Reviewed by: 862

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WORK ORDER NUMBER: 15-10- 1856

SAMPLE RECEIPT CHECKLIST

COOLER 6 OF 8

CLIENT: SWCA Environmental Consultants

DATE: 10 / 24 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 3.3 °C (w/ CF): 2.9 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: BC2

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: BC2

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: JJ8

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ 3 VOAh ☐ VOAna$_2$ ☐ 100PJ ☐ 100PJna$_2$ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PBznna ☐ 250AGB ☐ 250CGB ☑ 2 250CGBs ☐ 250PB ☑ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☑ 1AGB ☐ 1AGBna$_2$ ☑ 1AGBs ☐ 1PB ☐ 1PBna ☑ 2.5 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: JJ8

Reviewed by: BC2

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WORK ORDER NUMBER: 15-10- 1856

SAMPLE RECEIPT CHECKLIST

COOLER 7 OF 8

CLIENT: SWCA Environmental Consultants

DATE: 10 / 24 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 3.4 °C (w/ CF): 3.0 °C; ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 862

CUSTODY SEAL:

Cooler ☒ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 862

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A Checked by: 728

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☒	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☒	☐	☐
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and in good condition	☒	☐	☐
Proper containers for analyses requested	☒	☐	☐
Sufficient volume/mass for analyses requested	☒	☐	☐
Samples received within holding time	☒	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☒ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☒	☐
Proper preservation chemical(s) noted on COC and/or sample container	☒	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☒	☐	☐
☒ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☒ VOAh 3 ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☒ 250CGB**s** 3 ☐ 250PB ☒ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☒ 1AGB ☐ 1AGB**na**$_2$ ☒ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☒ 125 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 728

Reviewed by: 862

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WORK ORDER NUMBER: 15-10- 1856

SAMPLE RECEIPT CHECKLIST

COOLER 8 OF 8

CLIENT: SWCA Environmental Consultants

DATE: 10 / 24 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 3.3 °C (w/ CF): 2.9 °C; ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 862

CUSTODY SEAL:

Cooler ☒ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 862

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A Checked by: 778

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☒ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☒	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☒ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☒ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☒ 250CGB**s** ☐ 250PB ☒ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☒ 1AGB ☐ 1AGB**na**$_2$ ☒ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☒ 2.5 gal cube ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 778

Reviewed by: 862

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WORK ORDER NUMBER: 15-10- 1856

SAMPLE ANOMALY REPORT

DATE: 10 / 24 / 2015

SAMPLES, CONTAINERS, AND LABELS:

- ☐ Sample(s) NOT RECEIVED but listed on COC
- ☐ Sample(s) received but NOT LISTED on COC
- ☐ Holding time expired (list client or ECI sample ID and analysis)
- ☐ Insufficient sample amount for requested analysis (list analysis)
- ☐ Improper container(s) used (list analysis)
- ☐ Improper preservative used (list analysis)
- ☐ No preservative noted on COC or label (list analysis and notify lab)
- ☐ Sample container(s) not labeled
- ☐ Client sample label(s) illegible (list container type and analysis)
- ☐ Client sample label(s) do not match COC (comment)
  - ☐ Project information
  - ☐ Client sample ID
  - ☐ Sampling date and/or time
  - ☐ Number of container(s)
  - ☐ Requested analysis
- ☒ Sample container(s) compromised (comment)
  - ☒ Broken
  - ☐ Water present in sample container
- ☐ Air sample container(s) compromised (comment)
  - ☐ Flat
  - ☐ Very low in volume
  - ☐ Leaking (not transferred; duplicate bag submitted)
  - ☐ Leaking (transferred into ECI Tedlar™ bags*)
  - ☐ Leaking (transferred into client's Tedlar™ bags*)

* Transferred at client's request.

Comments

H-7) 1 of 2 250ml glass / H2SO4 received broken

MISCELLANEOUS: (Describe)

Comments

HEADSPACE:

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**

(Containers with bubble for other analysis)

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis

Comments: _____

Reported by: JZS

Reviewed by: SBC

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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Subcontractor Analysis Report

Work Order: 15-10-1856 Page 1 of 1

One or more samples in this work order have tests that were subcontracted. The subcontract report(s) follows.

For subcontracted tests, please reference the laboratory information noted below.

1. ALS - Columbia Analytical Services, Inc. - Kelso,WA CA ELAP 2286, NELAP WA100010
   Method 1694 Caffeine

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o e er **Analytical Report for Service Request No:**

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RE: 15-10-1856

e r o d

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or o r re ere e e e e e ee ed o r er e re e er **K1512169.**

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ALS Group USA, Corp. dba ALS Environmental

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Acronyms

Qualifiers

State Certifications, Accreditations, And Licenses

Case Narrative

Chain of Custody

Steroids and Endocrine Disrupting Compounds

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

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ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

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Case Narrative

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ALS ENVIRONMENTAL

Client:	Eurofins Calscience Environmental Laboratory	**Service Request No.:**	K1512169
Project:	15-10-1856	**Date Received:**	10/27/15
Sample Matrix:	Water		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Eight water samples were received for analysis at ALS Environmental on 10/27/15. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4ºC upon receipt at the laboratory.

Steroids and Endocrine Disrupting Compounds by Method 1694

Elevated Detection Limits:
Samples HCS 210 Lead and HCS 250 Lead required dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

No other anomalies associated with the analysis of these samples were observed.

Approved by_____

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Chain of Custody

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eurofins

Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

To: ALS - Kelso

DATE: 10/26/15

PAGE: 1 OF 1

KIS 17169

LABORATORY CLIENT: Eurofins Calscience, Inc.	CLIENT PROJECT NAME / NUMBER: 15-10-1856 / P.O. NO.: 15-10-1856
ADDRESS: 7440 Lincoln Way	PROJECT CONTACT: Don Burley / SAMPLER(S): (PRINT) N/A
CITY: Garden Grove STATE: CA ZIP: 92841-1427	
TEL: 714-895-5494 E-MAIL: DonaldBurley@eurofinsUS.com	

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
SAME DAY 24 HR 48 HR 72 HR 5 DAYS **X STANDARD**

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 1694 Caffeine
	HCS 210 Lead	10/23/15	11:46	W	1	X			X
	HCS 240 Lead	10/23/15	12:00	W	1	X			X
	HCS 250 Lead	10/23/15	12:03	W	1	X			X
	HCS 260 Lead	10/23/15	12:24	W	1	X			X
	HCS 270 Lead	10/23/15	12:20	W	1	X			X
	HCS 210 Peak	10/23/15	14:19	W	1	X			X
	HCS 240 Peak	10/23/15	14:36	W	1	X			X
	HCS 250 Peak	10/23/15	14:59	W	1	X			X

Relinquished by: (Signature) ECI	Received by: (Signature/Affiliation) FedEx AB# 7748 2895 6036	Date: 10/26/15	Time: 1610
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

PC HH

Cooler Receipt and Preservation Form

Client / Project: EUROFINS Service Request K15 12169

Received: 10/27/15 Opened: 10/27/15 By: L Unloaded: 10/27/15 By: L

1. Samples were received via? *Mail* (*Fed Ex*) *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1 FRONT
   If present, were custody seals intact? (Y) N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
0.0	0.2	1.1	1.3	0.2	342		774828956036	

4. Packing material: *Inserts* *Baggies* (*Bubble Wrap*) *Gel Packs* (*Wet Ice*) *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA (Y) N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA (Y) N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA (Y) N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
12. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page ____ *of* ____

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Steroids and Endocrine Disrupting Compounds

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WORK ORDER NUMBER: 15-10-1995

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: SWCA Environmental Consultants

Client Project Name: EAA 27122

Attention: Philip Pearce
6200 UTSA Blvd.
Suite 102
San Antonio, TX 78249-1618

Approved for release on 11/23/2015 by:
Don Burley
Project Manager

ResultLink

Email your PM

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Contents

Client Project Name: EAA 27122
Work Order Number: 15-10-1995

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Work Order Narrative

Work Order: 15-10-1995 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 10/27/15. They were assigned to Work Order 15-10-1995.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	SWCA Environmental Consultants	Work Order:	15-10-1995
	6200 UTSA Blvd., Suite 102	Project Name:	EAA 27122
	San Antonio, TX 78249-1618	PO Number:	
		Date/Time Received:	10/27/15 14:30
		Number of Containers:	307
Attn:	Philip Pearce		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
HCS 260 Peak	15-10-1995-1	10/23/15 15:01	9	Aqueous
HCS 270 Peak	15-10-1995-2	10/23/15 15:16	11	Aqueous
HCS 210 Trail	15-10-1995-3	10/23/15 16:14	9	Aqueous
HCS 240 Trail	15-10-1995-4	10/23/15 16:29	9	Aqueous
HCS 250 Trail	15-10-1995-5	10/23/15 17:09	11	Aqueous
HCS 260 Trail	15-10-1995-6	10/23/15 16:50	11	Aqueous
HCS 270 Trail	15-10-1995-7	10/23/15 17:34	9	Aqueous
FDHCS 260 Trail	15-10-1995-8	10/23/15 16:50	9	Aqueous
FDHCS 270 Trail	15-10-1995-9	10/23/15 17:34	9	Aqueous
TB15	15-10-1995-10	10/23/15 00:00	1	Aqueous
HSM 210 Trail	15-10-1995-11	10/23/15 20:35	9	Aqueous
HSM 230 Trail	15-10-1995-12	10/23/15 21:01	9	Aqueous
HSM 231 Trail	15-10-1995-13	10/23/15 21:21	9	Aqueous
HSM 240 Trail	15-10-1995-14	10/23/15 20:51	9	Aqueous
HSM 250 Trail	15-10-1995-15	10/23/15 21:06	9	Aqueous
HSM 260 Trail	15-10-1995-16	10/23/15 21:35	9	Aqueous
HSM 270 Trail	15-10-1995-17	10/23/15 21:55	11	Aqueous
FDHSM 210 Trail	15-10-1995-18	10/23/15 20:35	11	Aqueous
FDHSM 230 Trail	15-10-1995-19	10/23/15 21:01	9	Aqueous
FDHSM 231 Trail	15-10-1995-20	10/23/15 21:21	9	Aqueous
HSM 210 Lead	15-10-1995-21	10/23/15 15:25	11	Aqueous
HSM 230 Lead	15-10-1995-22	10/23/15 15:41	9	Aqueous
HSM 231 Lead	15-10-1995-23	10/23/15 16:02	9	Aqueous
HSM 240 Lead	15-10-1995-24	10/23/15 15:30	9	Aqueous
HSM 250 Lead	15-10-1995-25	10/23/15 16:21	11	Aqueous
HSM 260 Lead	15-10-1995-26	10/23/15 15:58	9	Aqueous
HSM 270 Lead	15-10-1995-27	10/23/15 16:15	11	Aqueous
HSM 210 Peak	15-10-1995-28	10/23/15 17:02	9	Aqueous
HSM 230 Peak	15-10-1995-29	10/23/15 17:16	9	Aqueous
HSM 231 Peak	15-10-1995-30	10/23/15 17:06	9	Aqueous
HSM 240 Peak	15-10-1995-31	10/23/15 17:34	9	Aqueous
HSM 250 Peak	15-10-1995-32	10/23/15 17:05	0	Aqueous
HSM 260 Peak	15-10-1995-33	10/23/15 17:25	9	Aqueous
HSM 270 Peak	15-10-1995-34	10/23/15 17:45	11	Aqueous

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-10-1995-1-I**	**10/23/15 15:01**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 22:20**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.19	0.10	0.027	1.00	
Chloride	16	1.0	0.52	1.00	
Bromide	0.090	0.10	0.058	1.00	J
Nitrate (as N)	1.6	0.10	0.053	1.00	BU
Sulfate	27	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-10-1995-2-I**	**10/23/15 15:16**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 22:39**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.19	0.10	0.027	1.00	
Chloride	17	1.0	0.52	1.00	
Bromide	0.091	0.10	0.058	1.00	J
Nitrate (as N)	1.6	0.10	0.053	1.00	BU
Sulfate	27	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-10-1995-3-I**	**10/23/15 16:14**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 22:57**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.10	0.10	0.027	1.00	
Chloride	7.2	1.0	0.52	1.00	
Bromide	ND	0.10	0.058	1.00	
Nitrate (as N)	0.68	0.10	0.053	1.00	BU
Sulfate	11	1.0	0.27	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-10-1995-4-I**	**10/23/15 16:29**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 23:15**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.20	0.10	0.027	1.00	
Chloride	17	1.0	0.52	1.00	
Bromide	0.086	0.10	0.058	1.00	J
Nitrate (as N)	1.8	0.10	0.053	1.00	BU
Sulfate	26	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-10-1995-5-I**	**10/23/15 17:09**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 23:34**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.18	0.10	0.027	1.00	
Chloride	16	1.0	0.52	1.00	
Bromide	0.073	0.10	0.058	1.00	J
Nitrate (as N)	1.6	0.10	0.053	1.00	BU
Sulfate	24	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-10-1995-6-I**	**10/23/15 16:50**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 23:52**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.19	0.10	0.027	1.00	
Chloride	17	1.0	0.52	1.00	
Bromide	0.099	0.10	0.058	1.00	J
Nitrate (as N)	1.7	0.10	0.053	1.00	BU
Sulfate	30	1.0	0.27	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-10-1995-7-I**	**10/23/15 17:34**	**Aqueous**	**IC 15**	**N/A**	**11/01/15 00:10**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.20	0.10	0.027	1.00	
Chloride	18	1.0	0.52	1.00	
Bromide	0.088	0.10	0.058	1.00	J
Nitrate (as N)	1.6	0.10	0.053	1.00	BU
Sulfate	28	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-10-1995-8-I**	**10/23/15 16:50**	**Aqueous**	**IC 15**	**N/A**	**11/01/15 00:29**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.20	0.10	0.027	1.00	
Chloride	17	1.0	0.52	1.00	
Bromide	0.10	0.10	0.058	1.00	
Nitrate (as N)	1.7	0.10	0.053	1.00	BU
Sulfate	30	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-10-1995-9-I**	**10/23/15 17:34**	**Aqueous**	**IC 15**	**N/A**	**11/01/15 00:47**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.19	0.10	0.027	1.00	
Chloride	18	1.0	0.52	1.00	
Bromide	0.089	0.10	0.058	1.00	J
Nitrate (as N)	1.6	0.10	0.053	1.00	BU
Sulfate	28	1.0	0.27	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-10-1995-11-I**	**10/23/15 20:35**	**Aqueous**	**IC 15**	**N/A**	**11/01/15 01:05**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.21	0.10	0.027	1.00	
Chloride	27	1.0	0.52	1.00	
Bromide	0.17	0.10	0.058	1.00	
Nitrate (as N)	0.61	0.10	0.053	1.00	BU
Sulfate	34	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-10-1995-12-I**	**10/23/15 21:01**	**Aqueous**	**IC 15**	**N/A**	**11/01/15 01:04**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.18	0.10	0.027	1.00	
Chloride	19	1.0	0.52	1.00	
Bromide	0.10	0.10	0.058	1.00	
Nitrate (as N)	1.5	0.10	0.053	1.00	BU
Sulfate	30	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-10-1995-13-I**	**10/23/15 21:21**	**Aqueous**	**IC 15**	**N/A**	**11/01/15 01:23**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.18	0.10	0.027	1.00	
Chloride	18	1.0	0.52	1.00	
Bromide	0.10	0.10	0.058	1.00	
Nitrate (as N)	1.3	0.10	0.053	1.00	BU
Sulfate	25	1.0	0.27	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-10-1995-14-I**	**10/23/15 20:51**	**Aqueous**	**IC 15**	**N/A**	**11/01/15 01:41**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.18	0.10	0.027	1.00	
Chloride	18	1.0	0.52	1.00	
Bromide	0.096	0.10	0.058	1.00	J
Nitrate (as N)	1.2	0.10	0.053	1.00	BU
Sulfate	25	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-10-1995-15-I**	**10/23/15 21:06**	**Aqueous**	**IC 15**	**N/A**	**11/01/15 01:59**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.18	0.10	0.027	1.00	
Chloride	18	1.0	0.52	1.00	
Bromide	0.11	0.10	0.058	1.00	
Nitrate (as N)	1.2	0.10	0.053	1.00	BU
Sulfate	26	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-10-1995-16-I**	**10/23/15 21:35**	**Aqueous**	**IC 15**	**N/A**	**11/01/15 02:18**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.17	0.10	0.027	1.00	
Chloride	18	1.0	0.52	1.00	
Bromide	0.098	0.10	0.058	1.00	J
Nitrate (as N)	1.2	0.10	0.053	1.00	BU
Sulfate	26	1.0	0.27	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-10-1995-17-I**	**10/23/15 21:55**	**Aqueous**	**IC 15**	**N/A**	**11/01/15 02:36**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.19	0.10	0.027	1.00	
Chloride	18	1.0	0.52	1.00	
Bromide	0.10	0.10	0.058	1.00	
Nitrate (as N)	1.2	0.10	0.053	1.00	BU
Sulfate	26	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-10-1995-18-I**	**10/23/15 20:35**	**Aqueous**	**IC 15**	**N/A**	**11/01/15 02:55**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.20	0.10	0.027	1.00	
Chloride	27	1.0	0.52	1.00	
Bromide	0.17	0.10	0.058	1.00	
Nitrate (as N)	0.62	0.10	0.053	1.00	BU
Sulfate	34	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-10-1995-19-I**	**10/23/15 21:01**	**Aqueous**	**IC 15**	**N/A**	**11/01/15 03:13**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.20	0.10	0.027	1.00	
Chloride	19	1.0	0.52	1.00	
Bromide	0.11	0.10	0.058	1.00	
Nitrate (as N)	1.6	0.10	0.053	1.00	BU
Sulfate	30	1.0	0.27	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-10-1995-20-I**	**10/23/15 21:21**	**Aqueous**	**IC 15**	**N/A**	**11/01/15 03:31**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.18	0.10	0.027	1.00	
Chloride	18	1.0	0.52	1.00	
Bromide	0.10	0.10	0.058	1.00	
Nitrate (as N)	1.2	0.10	0.053	1.00	BU
Sulfate	25	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-10-1995-21-I**	**10/23/15 15:25**	**Aqueous**	**IC 15**	**N/A**	**11/01/15 03:50**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.21	0.10	0.027	1.00	
Chloride	27	1.0	0.52	1.00	
Bromide	0.17	0.10	0.058	1.00	
Nitrate (as N)	0.62	0.10	0.053	1.00	BU
Sulfate	33	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-10-1995-22-I**	**10/23/15 15:41**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 14:32**	**151031L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.12	0.10	0.027	1.00	
Chloride	10	1.0	0.52	1.00	
Bromide	ND	0.10	0.058	1.00	
Nitrate (as N)	0.94	0.10	0.053	1.00	BU
Sulfate	14	1.0	0.27	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-10-1995-23-I**	**10/23/15 16:02**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 14:50**	**151031L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.17	0.10	0.027	1.00	
Chloride	18	1.0	0.52	1.00	
Bromide	0.092	0.10	0.058	1.00	J
Nitrate (as N)	1.2	0.10	0.053	1.00	BU
Sulfate	24	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-10-1995-24-I**	**10/23/15 15:30**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 15:08**	**151031L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.16	0.10	0.027	1.00	
Chloride	16	1.0	0.52	1.00	
Bromide	0.084	0.10	0.058	1.00	J
Nitrate (as N)	1.1	0.10	0.053	1.00	BU
Sulfate	23	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-10-1995-25-I**	**10/23/15 16:21**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 15:27**	**151031L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.17	0.10	0.027	1.00	
Chloride	18	1.0	0.52	1.00	
Bromide	0.092	0.10	0.058	1.00	J
Nitrate (as N)	1.2	0.10	0.053	1.00	BU
Sulfate	24	1.0	0.27	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-10-1995-26-I**	**10/23/15 15:58**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 15:45**	**151031L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.16	0.10	0.027	1.00	
Chloride	17	1.0	0.52	1.00	
Bromide	0.086	0.10	0.058	1.00	J
Nitrate (as N)	1.2	0.10	0.053	1.00	BU
Sulfate	24	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-10-1995-27-I**	**10/23/15 16:15**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 17:59**	**151031L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.19	0.10	0.027	1.00	
Chloride	18	1.0	0.52	1.00	
Bromide	0.10	0.10	0.058	1.00	
Nitrate (as N)	1.1	0.10	0.053	1.00	BU
Sulfate	25	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-10-1995-28-I**	**10/23/15 17:02**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 18:18**	**151031L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.21	0.10	0.027	1.00	
Chloride	27	1.0	0.52	1.00	
Bromide	0.16	0.10	0.058	1.00	
Nitrate (as N)	0.60	0.10	0.053	1.00	BU
Sulfate	33	1.0	0.27	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-10-1995-29-I**	**10/23/15 17:16**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 18:36**	**151031L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.18	0.10	0.027	1.00	
Chloride	21	1.0	0.52	1.00	
Bromide	0.11	0.10	0.058	1.00	
Nitrate (as N)	1.6	0.10	0.053	1.00	BU
Sulfate	28	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-10-1995-30-I**	**10/23/15 17:06**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 18:54**	**151031L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.17	0.10	0.027	1.00	
Chloride	18	1.0	0.52	1.00	
Bromide	0.10	0.10	0.058	1.00	
Nitrate (as N)	1.2	0.10	0.053	1.00	BU
Sulfate	25	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-10-1995-31-I**	**10/23/15 17:34**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 19:13**	**151031L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.18	0.10	0.027	1.00	
Chloride	18	1.0	0.52	1.00	
Bromide	0.10	0.10	0.058	1.00	J
Nitrate (as N)	1.2	0.10	0.053	1.00	BU
Sulfate	25	1.0	0.27	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-10-1995-33-I**	**10/23/15 17:25**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 19:31**	**151031L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.17	0.10	0.027	1.00	
Chloride	17	1.0	0.52	1.00	
Bromide	0.096	0.10	0.058	1.00	J
Nitrate (as N)	1.2	0.10	0.053	1.00	BU
Sulfate	23	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-10-1995-34-I**	**10/23/15 17:45**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 19:49**	**151031L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	0.17	0.10	0.027	1.00	
Chloride	18	1.0	0.52	1.00	
Bromide	0.10	0.10	0.058	1.00	
Nitrate (as N)	1.2	0.10	0.053	1.00	BU
Sulfate	25	1.0	0.27	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-906-6212**	**N/A**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 12:03**	**151031L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	ND	0.10	0.027	1.00	
Chloride	ND	1.0	0.52	1.00	
Bromide	ND	0.10	0.058	1.00	
Nitrate (as N)	ND	0.10	0.053	1.00	
Sulfate	ND	1.0	0.27	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-906-6215**	**N/A**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 21:43**	**151031L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Fluoride	ND	0.10	0.027	1.00	
Chloride	ND	1.0	0.52	1.00	
Bromide	ND	0.10	0.058	1.00	
Nitrate (as N)	ND	0.10	0.053	1.00	
Sulfate	ND	1.0	0.27	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-10-1995-1-F**	**10/23/15 15:01**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:11**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	66.4	0.100	0.0118	1.00	B
Magnesium	13.9	0.100	0.00336	1.00	
Potassium	1.82	0.500	0.103	1.00	
Sodium	10.8	0.500	0.103	1.00	
Strontium	0.550	0.0300	0.00277	1.00	
Silicon	4.92	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-10-1995-2-F**	**10/23/15 15:16**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:18**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	73.4	0.100	0.0118	1.00	B
Magnesium	15.4	0.100	0.00336	1.00	
Potassium	2.05	0.500	0.103	1.00	
Sodium	12.8	0.500	0.103	1.00	
Strontium	0.598	0.0300	0.00277	1.00	
Silicon	5.47	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-10-1995-3-F**	**10/23/15 16:14**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:20**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	34.0	0.100	0.0118	1.00	B
Magnesium	7.00	0.100	0.00336	1.00	
Potassium	2.77	0.500	0.103	1.00	
Sodium	5.09	0.500	0.103	1.00	
Strontium	0.267	0.0300	0.00277	1.00	
Silicon	2.66	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-10-1995-4-F**	**10/23/15 16:29**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:22**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	86.8	0.100	0.0118	1.00	B
Magnesium	17.9	0.100	0.00336	1.00	
Potassium	1.86	0.500	0.103	1.00	
Sodium	12.7	0.500	0.103	1.00	
Strontium	0.697	0.0300	0.00277	1.00	
Silicon	6.56	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-10-1995-5-F**	**10/23/15 17:09**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:29**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	71.8	0.100	0.0118	1.00	B
Magnesium	15.3	0.100	0.00336	1.00	
Potassium	2.42	0.500	0.103	1.00	
Sodium	11.1	0.500	0.103	1.00	
Strontium	0.587	0.0300	0.00277	1.00	
Silicon	5.66	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-10-1995-6-F**	**10/23/15 16:50**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:31**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	79.4	0.100	0.0118	1.00	B
Magnesium	16.6	0.100	0.00336	1.00	
Potassium	1.87	0.500	0.103	1.00	
Sodium	12.7	0.500	0.103	1.00	
Strontium	0.651	0.0300	0.00277	1.00	
Silicon	5.90	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-10-1995-7-F**	**10/23/15 17:34**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:33**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	73.8	0.100	0.0118	1.00	B
Magnesium	15.3	0.100	0.00336	1.00	
Potassium	2.04	0.500	0.103	1.00	
Sodium	13.1	0.500	0.103	1.00	
Strontium	0.605	0.0300	0.00277	1.00	
Silicon	5.52	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-10-1995-8-F**	**10/23/15 16:50**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:36**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	78.0	0.100	0.0118	1.00	B
Magnesium	16.5	0.100	0.00336	1.00	
Potassium	1.83	0.500	0.103	1.00	
Sodium	12.7	0.500	0.103	1.00	
Strontium	0.647	0.0300	0.00277	1.00	
Silicon	5.83	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-10-1995-9-F**	**10/23/15 17:34**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:38**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	71.5	0.100	0.0118	1.00	B
Magnesium	14.8	0.100	0.00336	1.00	
Potassium	1.99	0.500	0.103	1.00	
Sodium	12.8	0.500	0.103	1.00	
Strontium	0.593	0.0300	0.00277	1.00	
Silicon	5.29	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-10-1995-11-F**	**10/23/15 20:35**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:40**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	78.6	0.100	0.0118	1.00	B
Magnesium	20.0	0.100	0.00336	1.00	
Potassium	2.01	0.500	0.103	1.00	
Sodium	15.4	0.500	0.103	1.00	
Strontium	0.658	0.0300	0.00277	1.00	
Silicon	5.31	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-10-1995-12-F**	**10/23/15 21:01**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:43**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	83.2	0.100	0.0118	1.00	B
Magnesium	15.1	0.100	0.00336	1.00	
Potassium	2.25	0.500	0.103	1.00	
Sodium	12.3	0.500	0.103	1.00	
Strontium	0.471	0.0300	0.00277	1.00	
Silicon	5.22	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-10-1995-13-F**	**10/23/15 21:21**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:45**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	87.7	0.100	0.0118	1.00	B
Magnesium	18.6	0.100	0.00336	1.00	
Potassium	1.51	0.500	0.103	1.00	
Sodium	11.4	0.500	0.103	1.00	
Strontium	0.529	0.0300	0.00277	1.00	
Silicon	5.74	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-10-1995-14-F**	**10/23/15 20:51**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:47**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	88.1	0.100	0.0118	1.00	B
Magnesium	18.3	0.100	0.00336	1.00	
Potassium	1.52	0.500	0.103	1.00	
Sodium	11.5	0.500	0.103	1.00	
Strontium	0.529	0.0300	0.00277	1.00	
Silicon	5.67	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-10-1995-15-F**	**10/23/15 21:06**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:50**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	93.0	0.100	0.0118	1.00	B
Magnesium	19.2	0.100	0.00336	1.00	
Potassium	1.62	0.500	0.103	1.00	
Sodium	12.2	0.500	0.103	1.00	
Strontium	0.562	0.0300	0.00277	1.00	
Silicon	5.96	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-10-1995-16-F**	**10/23/15 21:35**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:56**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	86.2	0.100	0.0118	1.00	B
Magnesium	18.4	0.100	0.00336	1.00	
Potassium	1.72	0.500	0.103	1.00	
Sodium	11.6	0.500	0.103	1.00	
Strontium	0.523	0.0300	0.00277	1.00	
Silicon	5.70	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-10-1995-17-F**	**10/23/15 21:55**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:58**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	89.1	0.100	0.0118	1.00	B
Magnesium	18.5	0.100	0.00336	1.00	
Potassium	1.66	0.500	0.103	1.00	
Sodium	11.8	0.500	0.103	1.00	
Strontium	0.537	0.0300	0.00277	1.00	
Silicon	5.77	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-10-1995-18-F**	**10/23/15 20:35**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 20:01**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	80.4	0.100	0.0118	1.00	B
Magnesium	20.7	0.100	0.00336	1.00	
Potassium	2.08	0.500	0.103	1.00	
Sodium	15.8	0.500	0.103	1.00	
Strontium	0.675	0.0300	0.00277	1.00	
Silicon	5.45	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-10-1995-19-F**	**10/23/15 21:01**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 20:03**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	80.9	0.100	0.0118	1.00	B
Magnesium	15.1	0.100	0.00336	1.00	
Potassium	2.22	0.500	0.103	1.00	
Sodium	12.2	0.500	0.103	1.00	
Strontium	0.465	0.0300	0.00277	1.00	
Silicon	5.18	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-10-1995-20-F**	**10/23/15 21:21**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 20:05**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	86.2	0.100	0.0118	1.00	B
Magnesium	18.2	0.100	0.00336	1.00	
Potassium	1.55	0.500	0.103	1.00	
Sodium	11.4	0.500	0.103	1.00	
Strontium	0.524	0.0300	0.00277	1.00	
Silicon	5.62	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-10-1995-21-F**	**10/23/15 15:25**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 20:08**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	77.9	0.100	0.0118	1.00	B
Magnesium	19.9	0.100	0.00336	1.00	
Potassium	1.99	0.500	0.103	1.00	
Sodium	15.3	0.500	0.103	1.00	
Strontium	0.648	0.0300	0.00277	1.00	
Silicon	5.28	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-10-1995-22-F**	**10/23/15 15:41**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 12:30**	**151028LA9F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	44.0	0.100	0.0118	1.00	
Magnesium	7.44	0.100	0.00336	1.00	
Potassium	4.13	0.500	0.103	1.00	
Sodium	7.86	0.500	0.103	1.00	
Strontium	0.226	0.0300	0.00277	1.00	
Silicon	2.71	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-10-1995-23-F**	**10/23/15 16:02**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 20:10**	**151028LA9F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	83.4	0.100	0.0118	1.00	
Magnesium	17.6	0.100	0.00336	1.00	
Potassium	1.85	0.500	0.103	1.00	
Sodium	11.3	0.500	0.103	1.00	
Strontium	0.504	0.0300	0.00277	1.00	
Silicon	5.44	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-10-1995-24-F**	**10/23/15 15:30**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 20:12**	**151028LA9F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	75.4	0.100	0.0118	1.00	
Magnesium	15.8	0.100	0.00336	1.00	
Potassium	1.72	0.500	0.103	1.00	
Sodium	10.3	0.500	0.103	1.00	
Strontium	0.454	0.0300	0.00277	1.00	
Silicon	5.08	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-10-1995-25-F**	**10/23/15 16:21**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 20:15**	**151028LA9F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	87.3	0.100	0.0118	1.00	
Magnesium	18.3	0.100	0.00336	1.00	
Potassium	1.86	0.500	0.103	1.00	
Sodium	11.8	0.500	0.103	1.00	
Strontium	0.530	0.0300	0.00277	1.00	
Silicon	5.68	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-10-1995-26-F**	**10/23/15 15:58**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 20:17**	**151028LA9F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	82.9	0.100	0.0118	1.00	
Magnesium	17.8	0.100	0.00336	1.00	
Potassium	1.73	0.500	0.103	1.00	
Sodium	11.1	0.500	0.103	1.00	
Strontium	0.502	0.0300	0.00277	1.00	
Silicon	5.49	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-10-1995-27-F**	**10/23/15 16:15**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 20:23**	**151028LA9F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	81.2	0.100	0.0118	1.00	
Magnesium	17.2	0.100	0.00336	1.00	
Potassium	1.83	0.500	0.103	1.00	
Sodium	12.6	0.500	0.103	1.00	
Strontium	0.502	0.0300	0.00277	1.00	
Silicon	5.34	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-10-1995-28-F**	**10/23/15 17:02**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 20:26**	**151028LA9F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	78.1	0.100	0.0118	1.00	
Magnesium	20.2	0.100	0.00336	1.00	
Potassium	1.99	0.500	0.103	1.00	
Sodium	15.5	0.500	0.103	1.00	
Strontium	0.659	0.0300	0.00277	1.00	
Silicon	5.34	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-10-1995-29-F**	**10/23/15 17:16**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 20:28**	**151028LA9F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	83.2	0.100	0.0118	1.00	
Magnesium	16.3	0.100	0.00336	1.00	
Potassium	2.02	0.500	0.103	1.00	
Sodium	12.9	0.500	0.103	1.00	
Strontium	0.498	0.0300	0.00277	1.00	
Silicon	5.43	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-10-1995-30-F**	**10/23/15 17:06**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 20:30**	**151028LA9F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	87.3	0.100	0.0118	1.00	
Magnesium	18.7	0.100	0.00336	1.00	
Potassium	1.61	0.500	0.103	1.00	
Sodium	11.8	0.500	0.103	1.00	
Strontium	0.536	0.0300	0.00277	1.00	
Silicon	5.73	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-10-1995-31-F**	**10/23/15 17:34**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 20:33**	**151028LA9F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	98.7	0.100	0.0118	1.00	
Magnesium	20.6	0.100	0.00336	1.00	
Potassium	1.71	0.500	0.103	1.00	
Sodium	13.1	0.500	0.103	1.00	
Strontium	0.605	0.0300	0.00277	1.00	
Silicon	6.32	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-10-1995-33-F**	**10/23/15 17:25**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 20:35**	**151028LA9F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	81.9	0.100	0.0118	1.00	
Magnesium	17.0	0.100	0.00336	1.00	
Potassium	1.80	0.500	0.103	1.00	
Sodium	11.0	0.500	0.103	1.00	
Strontium	0.494	0.0300	0.00277	1.00	
Silicon	5.26	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-10-1995-34-F**	**10/23/15 17:45**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 20:37**	**151028LA9F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	75.8	0.100	0.0118	1.00	
Magnesium	15.8	0.100	0.00336	1.00	
Potassium	1.80	0.500	0.103	1.00	
Sodium	10.9	0.500	0.103	1.00	
Strontium	0.461	0.0300	0.00277	1.00	
Silicon	4.86	0.0500	0.0279	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-683-1458**	**N/A**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:02**	**151028LA8F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	0.0244	0.100	0.0118	1.00	J
Magnesium	ND	0.100	0.00336	1.00	
Potassium	ND	0.500	0.103	1.00	
Sodium	ND	0.500	0.103	1.00	
Strontium	ND	0.0300	0.00277	1.00	
Silicon	ND	0.0500	0.0279	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-683-1442**	**N/A**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 12:20**	**151028LA9F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Calcium	ND	0.100	0.0118	1.00	
Magnesium	ND	0.100	0.00336	1.00	
Potassium	ND	0.500	0.103	1.00	
Sodium	ND	0.500	0.103	1.00	
Strontium	ND	0.0300	0.00277	1.00	
Silicon	ND	0.0500	0.0279	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-10-1995-1-F**	**10/23/15 15:01**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 22:14**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0471	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000655	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00139	0.00100	0.000132	1.00	
Selenium	0.000363	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0225	0.00500	0.000479	1.00	
Aluminum	0.00593	0.0500	0.00331	1.00	J
Iron	0.0501	0.0500	0.00926	1.00	
Manganese	0.00576	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-10-1995-2-F**	**10/23/15 15:16**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 21:39**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000215	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0510	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000431	0.00100	0.000402	1.00	J
Copper	0.000375	0.00100	0.000140	1.00	J
Lead	0.000152	0.00100	0.0000898	1.00	J
Nickel	0.00152	0.00100	0.000132	1.00	
Selenium	0.000376	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0754	0.00500	0.000479	1.00	
Aluminum	0.00684	0.0500	0.00331	1.00	J
Iron	0.0548	0.0500	0.00926	1.00	
Manganese	0.00325	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-10-1995-3-F**	**10/23/15 16:14**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 22:18**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0290	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000449	0.00100	0.000402	1.00	J
Copper	0.00136	0.00100	0.000140	1.00	
Lead	0.000135	0.00100	0.0000898	1.00	J
Nickel	0.000992	0.00100	0.000132	1.00	J
Selenium	0.000214	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0118	0.00500	0.000479	1.00	
Aluminum	0.0145	0.0500	0.00331	1.00	J
Iron	0.0640	0.0500	0.00926	1.00	
Manganese	0.00133	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-10-1995-4-F**	**10/23/15 16:29**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 22:21**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0585	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000382	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00179	0.00100	0.000132	1.00	
Selenium	0.000418	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00341	0.00500	0.000479	1.00	J
Aluminum	0.00615	0.0500	0.00331	1.00	J
Iron	0.0596	0.0500	0.00926	1.00	
Manganese	0.00112	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-10-1995-5-F**	**10/23/15 17:09**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 22:25**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0499	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000814	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00155	0.00100	0.000132	1.00	
Selenium	0.000392	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00549	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0540	0.0500	0.00926	1.00	
Manganese	0.00168	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-10-1995-6-F**	**10/23/15 16:50**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 22:28**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0535	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000560	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00152	0.00100	0.000132	1.00	
Selenium	0.000270	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00363	0.00500	0.000479	1.00	J
Aluminum	0.00338	0.0500	0.00331	1.00	J
Iron	0.0502	0.0500	0.00926	1.00	
Manganese	0.00299	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-10-1995-7-F**	**10/23/15 17:34**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 23:17**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0512	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000721	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00145	0.00100	0.000132	1.00	
Selenium	0.000350	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00559	0.00500	0.000479	1.00	
Aluminum	0.00724	0.0500	0.00331	1.00	J
Iron	0.0553	0.0500	0.00926	1.00	
Manganese	0.000998	0.00100	0.000139	1.00	J

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-10-1995-8-F**	**10/23/15 16:50**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 23:21**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0529	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000267	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00152	0.00100	0.000132	1.00	
Selenium	0.000327	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0140	0.00500	0.000479	1.00	
Aluminum	0.00574	0.0500	0.00331	1.00	J
Iron	0.0559	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-10-1995-9-F**	**10/23/15 17:34**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 23:24**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0490	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000496	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00139	0.00100	0.000132	1.00	
Selenium	0.000318	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0101	0.00500	0.000479	1.00	
Aluminum	0.00581	0.0500	0.00331	1.00	J
Iron	0.0502	0.0500	0.00926	1.00	
Manganese	0.000298	0.00100	0.000139	1.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-10-1995-11-F**	**10/23/15 20:35**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 23:28**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0341	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	ND	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00157	0.00100	0.000132	1.00	
Selenium	0.000261	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0193	0.00500	0.000479	1.00	
Aluminum	0.00570	0.0500	0.00331	1.00	J
Iron	0.0519	0.0500	0.00926	1.00	
Manganese	0.0865	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-10-1995-12-F**	**10/23/15 21:01**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 23:31**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000173	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0357	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00118	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00192	0.00100	0.000132	1.00	
Selenium	0.000374	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0401	0.00500	0.000479	1.00	
Aluminum	0.00775	0.0500	0.00331	1.00	J
Iron	0.0568	0.0500	0.00926	1.00	
Manganese	0.00236	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-10-1995-13-F**	**10/23/15 21:21**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 23:35**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0367	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000193	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00170	0.00100	0.000132	1.00	
Selenium	0.000309	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0136	0.00500	0.000479	1.00	
Aluminum	0.00682	0.0500	0.00331	1.00	J
Iron	0.0550	0.0500	0.00926	1.00	
Manganese	0.000472	0.00100	0.000139	1.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-10-1995-14-F**	**10/23/15 20:51**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 23:39**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000130	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0370	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	ND	0.00100	0.000140	1.00	
Lead	0.000110	0.00100	0.0000898	1.00	J
Nickel	0.00182	0.00100	0.000132	1.00	
Selenium	0.000270	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0462	0.00500	0.000479	1.00	
Aluminum	0.00873	0.0500	0.00331	1.00	J
Iron	0.0820	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-10-1995-15-F**	**10/23/15 21:06**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 23:42**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0388	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000657	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00227	0.00100	0.000132	1.00	
Selenium	0.000301	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0120	0.00500	0.000479	1.00	
Aluminum	0.00982	0.0500	0.00331	1.00	J
Iron	0.0588	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-10-1995-16-F**	**10/23/15 21:35**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 23:46**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0372	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000208	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00172	0.00100	0.000132	1.00	
Selenium	0.000303	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0102	0.00500	0.000479	1.00	
Aluminum	0.00679	0.0500	0.00331	1.00	J
Iron	0.0496	0.0500	0.00926	1.00	J
Manganese	ND	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-10-1995-17-F**	**10/23/15 21:55**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 23:49**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0379	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000336	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00186	0.00100	0.000132	1.00	
Selenium	0.000318	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0101	0.00500	0.000479	1.00	
Aluminum	0.0244	0.0500	0.00331	1.00	J
Iron	0.0655	0.0500	0.00926	1.00	
Manganese	0.000618	0.00100	0.000139	1.00	J

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-10-1995-18-F**	**10/23/15 20:35**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/31/15 00:03**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0347	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000179	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00165	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00791	0.00500	0.000479	1.00	
Aluminum	0.00569	0.0500	0.00331	1.00	J
Iron	0.0609	0.0500	0.00926	1.00	
Manganese	0.0846	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-10-1995-19-F**	**10/23/15 21:01**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/31/15 00:07**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000143	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0369	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00151	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00188	0.00100	0.000132	1.00	
Selenium	0.000270	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00928	0.00500	0.000479	1.00	
Aluminum	0.00881	0.0500	0.00331	1.00	J
Iron	0.0529	0.0500	0.00926	1.00	
Manganese	0.00354	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-10-1995-20-F**	**10/23/15 21:21**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/31/15 00:10**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0374	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	ND	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00183	0.00100	0.000132	1.00	
Selenium	0.000292	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0502	0.00500	0.000479	1.00	
Aluminum	0.00514	0.0500	0.00331	1.00	J
Iron	0.0707	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-10-1995-21-F**	**10/23/15 15:25**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/31/15 00:14**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0343	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	ND	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00161	0.00100	0.000132	1.00	
Selenium	0.000255	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0383	0.00500	0.000479	1.00	
Aluminum	0.00560	0.0500	0.00331	1.00	J
Iron	0.0473	0.0500	0.00926	1.00	J
Manganese	0.0940	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-10-1995-22-F**	**10/23/15 15:41**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/31/15 00:17**	**151028LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000927	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0238	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.00131	0.00100	0.000402	1.00	
Copper	0.00545	0.00100	0.000140	1.00	
Lead	0.000194	0.00100	0.0000898	1.00	J
Nickel	0.00173	0.00100	0.000132	1.00	
Selenium	0.000242	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0602	0.00500	0.000479	1.00	B
Aluminum	0.0223	0.0500	0.00331	1.00	J
Iron	0.0947	0.0500	0.00926	1.00	
Manganese	0.0126	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-10-1995-23-F**	**10/23/15 16:02**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 22:11**	**151028LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000167	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0362	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000675	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00177	0.00100	0.000132	1.00	
Selenium	0.000294	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0290	0.00500	0.000479	1.00	B
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0572	0.0500	0.00926	1.00	
Manganese	0.00412	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-10-1995-24-F**	**10/23/15 15:30**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/31/15 00:21**	**151028LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000363	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0354	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00226	0.00100	0.000140	1.00	
Lead	0.000336	0.00100	0.0000898	1.00	J
Nickel	0.00191	0.00100	0.000132	1.00	
Selenium	0.000332	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0138	0.00500	0.000479	1.00	B
Aluminum	0.0887	0.0500	0.00331	1.00	
Iron	0.116	0.0500	0.00926	1.00	
Manganese	0.00920	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-10-1995-25-F**	**10/23/15 16:21**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/31/15 00:24**	**151028LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000145	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0393	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000572	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00189	0.00100	0.000132	1.00	
Selenium	0.000279	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0181	0.00500	0.000479	1.00	B
Aluminum	0.00580	0.0500	0.00331	1.00	J
Iron	0.0599	0.0500	0.00926	1.00	
Manganese	0.00117	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-10-1995-26-F**	**10/23/15 15:58**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/31/15 00:28**	**151028LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0363	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000280	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00181	0.00100	0.000132	1.00	
Selenium	0.000309	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0135	0.00500	0.000479	1.00	B
Aluminum	0.0102	0.0500	0.00331	1.00	J
Iron	0.0565	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-10-1995-27-F**	**10/23/15 16:15**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/31/15 00:31**	**151028LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000111	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0370	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000360	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00180	0.00100	0.000132	1.00	
Selenium	0.000275	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0149	0.00500	0.000479	1.00	B
Aluminum	0.00652	0.0500	0.00331	1.00	J
Iron	0.0490	0.0500	0.00926	1.00	J
Manganese	0.00131	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-10-1995-28-F**	**10/23/15 17:02**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/31/15 00:35**	**151028LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0347	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00104	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00172	0.00100	0.000132	1.00	
Selenium	0.000233	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0161	0.00500	0.000479	1.00	B
Aluminum	0.00726	0.0500	0.00331	1.00	J
Iron	0.0547	0.0500	0.00926	1.00	
Manganese	0.0803	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-10-1995-29-F**	**10/23/15 17:16**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**11/03/15 00:39**	**151028LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000176	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0381	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000905	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00150	0.00100	0.000132	1.00	
Selenium	0.000198	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0148	0.00500	0.000479	1.00	B
Aluminum	0.00555	0.0500	0.00331	1.00	J
Iron	0.0560	0.0500	0.00926	1.00	
Manganese	0.00716	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-10-1995-30-F**	**10/23/15 17:06**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**11/03/15 00:43**	**151028LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0379	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.000644	0.00100	0.000402	1.00	J
Copper	0.000487	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00155	0.00100	0.000132	1.00	
Selenium	0.000180	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0121	0.00500	0.000479	1.00	B
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0709	0.0500	0.00926	1.00	
Manganese	0.0117	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-10-1995-31-F**	**10/23/15 17:34**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**11/03/15 00:46**	**151028LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000150	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0418	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.000355	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00171	0.00100	0.000132	1.00	
Selenium	0.000214	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0257	0.00500	0.000479	1.00	B
Aluminum	0.00399	0.0500	0.00331	1.00	J
Iron	0.0681	0.0500	0.00926	1.00	
Manganese	0.00266	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-10-1995-33-F**	**10/23/15 17:25**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**11/03/15 00:50**	**151028LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000465	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0369	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	0.00102	0.00100	0.000140	1.00	
Lead	0.000128	0.00100	0.0000898	1.00	J
Nickel	0.00153	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0322	0.00500	0.000479	1.00	B
Aluminum	0.0185	0.0500	0.00331	1.00	J
Iron	0.184	0.0500	0.00926	1.00	
Manganese	0.00516	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-10-1995-34-F**	**10/23/15 17:45**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**11/03/15 00:53**	**151028LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.000144	0.00100	0.0000995	1.00	J
Arsenic	ND	0.00100	0.000386	1.00	
Barium	0.0331	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	0.00100	0.00100	0.000402	1.00	
Copper	0.000851	0.00100	0.000140	1.00	J
Lead	ND	0.00100	0.0000898	1.00	
Nickel	0.00150	0.00100	0.000132	1.00	
Selenium	0.000190	0.00100	0.000168	1.00	J
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.0159	0.00500	0.000479	1.00	B
Aluminum	ND	0.0500	0.00331	1.00	
Iron	0.0634	0.0500	0.00926	1.00	
Manganese	0.0106	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-693-963**	**N/A**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**11/06/15 16:19**	**151028LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	ND	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	ND	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	ND	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	ND	0.00500	0.000479	1.00	
Aluminum	ND	0.0500	0.00331	1.00	
Iron	ND	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-693-964**	**N/A**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**11/06/15 16:22**	**151028LA5F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.00100	0.0000995	1.00	
Arsenic	ND	0.00100	0.000386	1.00	
Barium	ND	0.00100	0.0000986	1.00	
Beryllium	ND	0.00100	0.000290	1.00	
Cadmium	ND	0.00100	0.000128	1.00	
Chromium	ND	0.00100	0.000402	1.00	
Copper	ND	0.00100	0.000140	1.00	
Lead	ND	0.00100	0.0000898	1.00	
Nickel	ND	0.00100	0.000132	1.00	
Selenium	ND	0.00100	0.000168	1.00	
Silver	ND	0.00100	0.000111	1.00	
Thallium	ND	0.00100	0.000101	1.00	
Zinc	0.00185	0.00500	0.000479	1.00	J
Aluminum	ND	0.0500	0.00331	1.00	
Iron	ND	0.0500	0.00926	1.00	
Manganese	ND	0.00100	0.000139	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-10-1995-1-F**	**10/23/15 15:01**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 20:25**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-10-1995-2-F**	**10/23/15 15:16**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 20:27**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-10-1995-3-F**	**10/23/15 16:14**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 20:18**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-10-1995-4-F**	**10/23/15 16:29**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 20:34**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-10-1995-5-F**	**10/23/15 17:09**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 20:36**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-10-1995-6-F**	**10/23/15 16:50**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 20:39**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-10-1995-7-F**	**10/23/15 17:34**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 20:41**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-10-1995-8-F**	**10/23/15 16:50**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 20:43**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-10-1995-9-F**	**10/23/15 17:34**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 20:45**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-10-1995-11-F**	**10/23/15 20:35**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 20:48**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-10-1995-12-F**	**10/23/15 21:01**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 20:50**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-10-1995-13-F**	**10/23/15 21:21**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 20:52**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-10-1995-14-F**	**10/23/15 20:51**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 20:54**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-10-1995-15-F**	**10/23/15 21:06**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:01**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-10-1995-16-F**	**10/23/15 21:35**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:03**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-10-1995-17-F**	**10/23/15 21:55**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:05**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-10-1995-18-F**	**10/23/15 20:35**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:08**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-10-1995-19-F**	**10/23/15 21:01**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:10**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-10-1995-20-F**	**10/23/15 21:21**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:12**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-10-1995-21-F**	**10/23/15 15:25**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:14**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-10-1995-22-F**	**10/23/15 15:41**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:32**	**151105LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-10-1995-23-F**	**10/23/15 16:02**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:35**	**151105LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-10-1995-24-F**	**10/23/15 15:30**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:21**	**151105LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-10-1995-25-F**	**10/23/15 16:21**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:37**	**151105LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-10-1995-26-F**	**10/23/15 15:58**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:39**	**151105LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-10-1995-27-F**	**10/23/15 16:15**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:41**	**151105LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-10-1995-28-F**	**10/23/15 17:02**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:43**	**151105LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-10-1995-29-F**	**10/23/15 17:16**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:45**	**151105LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-10-1995-30-F**	**10/23/15 17:06**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:48**	**151105LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-10-1995-31-F**	**10/23/15 17:34**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/06/15 14:31**	**151105LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 7470A Filt.
Method: EPA 7470A
Units: mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-10-1995-33-F**	**10/23/15 17:25**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/06/15 14:33**	**151105LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-10-1995-34-F**	**10/23/15 17:45**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/06/15 14:36**	**151105LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-763-654**	**N/A**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 20:14**	**151105LA3F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-763-655**	**N/A**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:17**	**151105LA4F**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.000500	0.0000453	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-10-1995-1-I**	**10/23/15 15:01**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 19:34**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	103	50-135	
2,4,5,6-Tetrachloro-m-Xylene	100	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-10-1995-2-I**	**10/23/15 15:16**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 19:49**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	106	50-135	
2,4,5,6-Tetrachloro-m-Xylene	105	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-10-1995-3-I**	**10/23/15 16:14**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 20:03**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	50-135	
2,4,5,6-Tetrachloro-m-Xylene	99	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-10-1995-4-I**	**10/23/15 16:29**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 20:17**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	107	50-135	
2,4,5,6-Tetrachloro-m-Xylene	102	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-10-1995-5-I**	**10/23/15 17:09**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 20:32**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	103	50-135	
2,4,5,6-Tetrachloro-m-Xylene	101	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-10-1995-6-I**	**10/23/15 16:50**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 20:46**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	97	50-135	
2,4,5,6-Tetrachloro-m-Xylene	91	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-10-1995-7-I**	**10/23/15 17:34**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 21:00**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	106	50-135	
2,4,5,6-Tetrachloro-m-Xylene	103	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-10-1995-8-I**	**10/23/15 16:50**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 21:14**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	106	50-135	
2,4,5,6-Tetrachloro-m-Xylene	93	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-10-1995-9-I**	**10/23/15 17:34**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 21:29**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	105	50-135	
2,4,5,6-Tetrachloro-m-Xylene	93	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-10-1995-11-I**	**10/23/15 20:35**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 21:43**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	50-135	
2,4,5,6-Tetrachloro-m-Xylene	76	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-10-1995-12-I**	**10/23/15 21:01**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 21:57**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	50-135	
2,4,5,6-Tetrachloro-m-Xylene	92	50-135	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-10-1995-13-I**	**10/23/15 21:21**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 22:12**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	112	50-135	
2,4,5,6-Tetrachloro-m-Xylene	94	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-10-1995-14-I**	**10/23/15 20:51**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 22:26**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	111	50-135	
2,4,5,6-Tetrachloro-m-Xylene	96	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-10-1995-15-I**	**10/23/15 21:06**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 22:40**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	105	50-135	
2,4,5,6-Tetrachloro-m-Xylene	90	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-10-1995-16-I**	**10/23/15 21:35**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 22:55**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	107	50-135	
2,4,5,6-Tetrachloro-m-Xylene	99	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-10-1995-17-I**	**10/23/15 21:55**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 23:09**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	108	50-135	
2,4,5,6-Tetrachloro-m-Xylene	96	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-10-1995-18-I**	**10/23/15 20:35**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 23:23**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	75	50-135	
2,4,5,6-Tetrachloro-m-Xylene	75	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-10-1995-19-I**	**10/23/15 21:01**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 23:37**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	50-135	
2,4,5,6-Tetrachloro-m-Xylene	98	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-10-1995-20-I**	**10/23/15 21:21**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 23:52**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	109	50-135	
2,4,5,6-Tetrachloro-m-Xylene	100	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-10-1995-21-I**	**10/23/15 15:25**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 00:06**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	100	50-135	
2,4,5,6-Tetrachloro-m-Xylene	107	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-10-1995-22-I**	**10/23/15 15:41**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 01:03**	**151029L13**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	0.090	0.10	0.028	1.00	J
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	50-135	
2,4,5,6-Tetrachloro-m-Xylene	102	50-135	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-10-1995-23-I**	**10/23/15 16:02**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 01:17**	**151029L13**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	103	50-135	
2,4,5,6-Tetrachloro-m-Xylene	101	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-10-1995-24-I**	**10/23/15 15:30**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 01:32**	**151029L13**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	50-135	
2,4,5,6-Tetrachloro-m-Xylene	96	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-10-1995-25-I**	**10/23/15 16:21**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 01:46**	**151029L13**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	106	50-135	
2,4,5,6-Tetrachloro-m-Xylene	103	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-10-1995-26-I**	**10/23/15 15:58**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 02:00**	**151029L13**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	107	50-135	
2,4,5,6-Tetrachloro-m-Xylene	107	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-10-1995-27-I**	**10/23/15 16:15**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 02:15**	**151029L13**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	104	50-135	
2,4,5,6-Tetrachloro-m-Xylene	104	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-10-1995-28-I**	**10/23/15 17:02**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 02:29**	**151029L13**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	112	50-135	
2,4,5,6-Tetrachloro-m-Xylene	111	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-10-1995-29-I**	**10/23/15 17:16**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 02:43**	**151029L13**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	50-135	
2,4,5,6-Tetrachloro-m-Xylene	97	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-10-1995-30-I**	**10/23/15 17:06**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 02:58**	**151029L13**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	108	50-135	
2,4,5,6-Tetrachloro-m-Xylene	103	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-10-1995-31-I**	**10/23/15 17:34**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 03:12**	**151029L13**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	103	50-135	
2,4,5,6-Tetrachloro-m-Xylene	97	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-10-1995-33-I**	**10/23/15 17:25**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 03:26**	**151029L13**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	110	50-135	
2,4,5,6-Tetrachloro-m-Xylene	109	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-10-1995-34-I**	**10/23/15 17:45**	**Aqueous**	**GC 44**	**10/29/15**	**10/31/15 03:40**	**151029L13**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	108	50-135	
2,4,5,6-Tetrachloro-m-Xylene	109	50-135	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-529-851**	**N/A**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 13:57**	**151029L12**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	100	50-135	
2,4,5,6-Tetrachloro-m-Xylene	106	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-529-852**	**N/A**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 14:40**	**151029L13**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	107	50-135	
2,4,5,6-Tetrachloro-m-Xylene	93	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-10-1995-1-I**	**10/23/15 15:01**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 15:10**	**151029L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	111	50-135	
2,4,5,6-Tetrachloro-m-Xylene	87	50-135	

HCS 270 Peak	15-10-1995-2-I	10/23/15 15:16	Aqueous	GC 31	10/29/15	10/30/15 15:29	151029L14

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	116	50-135	
2,4,5,6-Tetrachloro-m-Xylene	94	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-10-1995-3-I**	**10/23/15 16:14**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 15:48**	**151029L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	109	50-135	
2,4,5,6-Tetrachloro-m-Xylene	85	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-10-1995-4-I**	**10/23/15 16:29**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 16:07**	**151029L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	116	50-135	
2,4,5,6-Tetrachloro-m-Xylene	85	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-10-1995-5-I**	**10/23/15 17:09**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 16:26**	**151029L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	113	50-135	
2,4,5,6-Tetrachloro-m-Xylene	87	50-135	

HCS 260 Trail	15-10-1995-6-I	10/23/15 16:50	Aqueous	GC 31	10/29/15	10/30/15 16:45	151029L14

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	145	50-135	2,7
2,4,5,6-Tetrachloro-m-Xylene	110	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-10-1995-7-I**	**10/23/15 17:34**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 17:04**	**151029L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	118	50-135	
2,4,5,6-Tetrachloro-m-Xylene	95	50-135	

FDHCS 260 Trail	15-10-1995-8-I	10/23/15 16:50	Aqueous	GC 31	10/29/15	10/30/15 17:23	151029L14

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	114	50-135	
2,4,5,6-Tetrachloro-m-Xylene	81	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-10-1995-9-I**	**10/23/15 17:34**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 17:42**	**151029L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	114	50-135	
2,4,5,6-Tetrachloro-m-Xylene	83	50-135	

HSM 210 Trail	15-10-1995-11-I	10/23/15 20:35	Aqueous	GC 31	10/29/15	10/30/15 18:01	151029L14

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	50-135	
2,4,5,6-Tetrachloro-m-Xylene	67	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-10-1995-12-I**	**10/23/15 21:01**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 18:20**	**151029L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	113	50-135	
2,4,5,6-Tetrachloro-m-Xylene	84	50-135	

HSM 231 Trail	15-10-1995-13-I	10/23/15 21:21	Aqueous	GC 31	10/29/15	10/30/15 18:39	151029L14

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	124	50-135	
2,4,5,6-Tetrachloro-m-Xylene	83	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-10-1995-14-I**	**10/23/15 20:51**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 18:58**	**151029L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	126	50-135	
2,4,5,6-Tetrachloro-m-Xylene	85	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-10-1995-15-I**	**10/23/15 21:06**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 19:18**	**151029L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	117	50-135	
2,4,5,6-Tetrachloro-m-Xylene	81	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-10-1995-16-I**	**10/23/15 21:35**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 19:56**	**151029L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	122	50-135	
2,4,5,6-Tetrachloro-m-Xylene	91	50-135	

HSM 270 Trail	15-10-1995-17-I	10/23/15 21:55	Aqueous	GC 31	10/29/15	10/30/15 20:15	151029L14

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	120	50-135	
2,4,5,6-Tetrachloro-m-Xylene	92	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-10-1995-18-I**	**10/23/15 20:35**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 20:34**	**151029L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	92	50-135	
2,4,5,6-Tetrachloro-m-Xylene	70	50-135	

FDHSM 230 Trail	15-10-1995-19-I	10/23/15 21:01	Aqueous	GC 31	10/29/15	10/30/15 20:53	151029L14

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	111	50-135	
2,4,5,6-Tetrachloro-m-Xylene	89	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-10-1995-20-I**	**10/23/15 21:21**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 21:12**	**151029L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	124	50-135	
2,4,5,6-Tetrachloro-m-Xylene	95	50-135	

HSM 210 Lead	15-10-1995-21-I	10/23/15 15:25	Aqueous	GC 31	10/29/15	10/30/15 21:31	151029L14

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	125	50-135	
2,4,5,6-Tetrachloro-m-Xylene	100	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-10-1995-22-I**	**10/23/15 15:41**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 21:50**	**151029L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	112	50-135	
2,4,5,6-Tetrachloro-m-Xylene	96	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-10-1995-23-I**	**10/23/15 16:02**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 22:09**	**151029L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	125	50-135	
2,4,5,6-Tetrachloro-m-Xylene	103	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-10-1995-24-I**	**10/23/15 15:30**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 22:28**	**151029L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	112	50-135	
2,4,5,6-Tetrachloro-m-Xylene	95	50-135	

HSM 250 Lead	15-10-1995-25-I	10/23/15 16:21	Aqueous	GC 31	10/29/15	10/30/15 22:47	151029L15

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	125	50-135	
2,4,5,6-Tetrachloro-m-Xylene	97	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-10-1995-26-I**	**10/23/15 15:58**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 23:06**	**151029L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	122	50-135	
2,4,5,6-Tetrachloro-m-Xylene	93	50-135	

HSM 270 Lead	15-10-1995-27-I	10/23/15 16:15	Aqueous	GC 31	10/29/15	10/30/15 23:25	151029L15

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	128	50-135	
2,4,5,6-Tetrachloro-m-Xylene	99	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-10-1995-28-I**	**10/23/15 17:02**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 23:44**	**151029L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	127	50-135	
2,4,5,6-Tetrachloro-m-Xylene	98	50-135	

HSM 230 Peak	15-10-1995-29-I	10/23/15 17:16	Aqueous	GC 31	10/29/15	10/31/15 00:03	151029L15

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	113	50-135	
2,4,5,6-Tetrachloro-m-Xylene	89	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-10-1995-30-I**	**10/23/15 17:06**	**Aqueous**	**GC 31**	**10/29/15**	**10/31/15 00:22**	**151029L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	124	50-135	
2,4,5,6-Tetrachloro-m-Xylene	97	50-135	

HSM 240 Peak	15-10-1995-31-I	10/23/15 17:34	Aqueous	GC 31	10/29/15	10/31/15 00:41	151029L15

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	119	50-135	
2,4,5,6-Tetrachloro-m-Xylene	95	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-10-1995-33-I**	**10/23/15 17:25**	**Aqueous**	**GC 31**	**10/29/15**	**10/31/15 01:00**	**151029L15**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	123	50-135	
2,4,5,6-Tetrachloro-m-Xylene	100	50-135	

HSM 270 Peak	15-10-1995-34-I	10/23/15 17:45	Aqueous	GC 31	10/29/15	10/31/15 01:19	151029L15

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	123	50-135	
2,4,5,6-Tetrachloro-m-Xylene	102	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-533-1101**	**N/A**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 13:53**	**151029L14**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	116	50-135	
2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

Method Blank	099-12-533-1102	N/A	Aqueous	GC 31	10/29/15	10/30/15 14:51	151029L15

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	119	50-135	
2,4,5,6-Tetrachloro-m-Xylene	83	50-135	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-10-1995-1-I**	**10/23/15 15:01**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 06:51**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	74	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-10-1995-2-I**	**10/23/15 15:16**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 07:35**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	69	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-10-1995-3-I**	**10/23/15 16:14**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 08:19**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	77	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-10-1995-4-I**	**10/23/15 16:29**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 09:03**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	70	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-10-1995-5-I**	**10/23/15 17:09**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 09:47**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	76	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-10-1995-6-I**	**10/23/15 16:50**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 10:31**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	77	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-10-1995-7-I**	**10/23/15 17:34**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 11:16**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	73	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-10-1995-8-I**	**10/23/15 16:50**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 12:00**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	75	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-10-1995-9-I**	**10/23/15 17:34**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 12:44**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	74	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-10-1995-11-I**	**10/23/15 20:35**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 13:28**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	76	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-10-1995-12-I**	**10/23/15 21:01**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 14:12**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	79	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-10-1995-13-I**	**10/23/15 21:21**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 14:56**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	76	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-10-1995-14-I**	**10/23/15 20:51**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 15:40**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	79	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-10-1995-15-I**	**10/23/15 21:06**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 16:24**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	72	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-10-1995-16-I**	**10/23/15 21:35**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 17:09**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	67	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-10-1995-17-I**	**10/23/15 21:55**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 18:37**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	77	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-10-1995-18-I**	**10/23/15 20:35**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 19:21**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	81	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-10-1995-19-I**	**10/23/15 21:01**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 20:05**	**151030L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	81	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-10-1995-20-I**	**10/23/15 21:21**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 20:49**	**151030L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	70	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-10-1995-21-I**	**10/23/15 15:25**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 21:33**	**151030L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	74	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-10-1995-22-I**	**10/23/15 15:41**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 22:17**	**151030L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	71	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-10-1995-23-I**	**10/23/15 16:02**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 23:02**	**151030L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	78	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-10-1995-24-I**	**10/23/15 15:30**	**Aqueous**	**GC 26**	**10/30/15**	**10/31/15 23:46**	**151030L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	74	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-10-1995-25-I**	**10/23/15 16:21**	**Aqueous**	**GC 26**	**10/30/15**	**11/01/15 00:30**	**151030L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	73	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-10-1995-26-I**	**10/23/15 15:58**	**Aqueous**	**GC 26**	**10/30/15**	**11/01/15 01:14**	**151030L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	74	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-10-1995-27-I**	**10/23/15 16:15**	**Aqueous**	**GC 26**	**10/30/15**	**11/01/15 01:58**	**151030L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	66	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-10-1995-28-I**	**10/23/15 17:02**	**Aqueous**	**GC 26**	**10/30/15**	**11/01/15 02:42**	**151030L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	78	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-10-1995-29-I**	**10/23/15 17:16**	**Aqueous**	**GC 26**	**10/30/15**	**11/01/15 03:26**	**151030L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	76	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-10-1995-30-I**	**10/23/15 17:06**	**Aqueous**	**GC 26**	**10/30/15**	**11/01/15 04:10**	**151030L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	72	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-10-1995-31-I**	**10/23/15 17:34**	**Aqueous**	**GC 26**	**10/30/15**	**11/01/15 04:54**	**151030L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	71	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-10-1995-33-I**	**10/23/15 17:25**	**Aqueous**	**GC 26**	**10/30/15**	**11/01/15 06:22**	**151030L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	68	30-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-10-1995-34-I**	**10/23/15 17:45**	**Aqueous**	**GC 26**	**10/30/15**	**11/01/15 07:07**	**151030L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	74	30-130	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-963-121**	**N/A**	**Aqueous**	**GC 26**	**10/30/15**	**10/30/15 19:49**	**151030L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	68	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A
Units: mg/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-963-122**	**N/A**	**Aqueous**	**GC 26**	**10/30/15**	**10/30/15 22:02**	**151030L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Azinphos Methyl	ND	0.0050	0.0029	1.00	
Bolstar	ND	0.0050	0.0029	1.00	
Chlorpyrifos	ND	0.0050	0.0024	1.00	
Coumaphos	ND	0.0050	0.0024	1.00	
Diazinon	ND	0.0050	0.0029	1.00	
Dichlorvos	ND	0.0050	0.0036	1.00	
Disulfoton	ND	0.010	0.0026	1.00	
Ethoprop	ND	0.0050	0.0025	1.00	
Fensulfothion	ND	0.0050	0.0029	1.00	
Fenthion	ND	0.0050	0.0026	1.00	
Merphos	ND	0.0050	0.0026	1.00	
Methyl Parathion	ND	0.0050	0.0030	1.00	
Mevinphos	ND	0.0050	0.0027	1.00	
Naled	ND	0.040	0.019	1.00	
Phorate	ND	0.0050	0.0025	1.00	
Ronnel	ND	0.0050	0.0032	1.00	
Stirophos	ND	0.020	0.0088	1.00	
Tokuthion	ND	0.0050	0.0028	1.00	
Trichloronate	ND	0.0050	0.0021	1.00	
Demeton-o/s	ND	0.0050	0.0028	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Tributylphosphate	72	30-130	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-10-1995-1-I**	**10/23/15 15:01**	**Aqueous**	**GC 40**	**10/30/15**	**11/05/15 22:04**	**151030L19**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	92	0-123	

HCS 270 Peak	15-10-1995-2-I	10/23/15 15:16	Aqueous	GC 40	10/30/15	11/05/15 22:27	151030L19

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	82	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-10-1995-3-I**	**10/23/15 16:14**	**Aqueous**	**GC 40**	**10/30/15**	**11/05/15 22:50**	**151030L19**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	134	0-123	2,7

HCS 240 Trail	15-10-1995-4-I	10/23/15 16:29	Aqueous	GC 40	10/30/15	11/05/15 23:13	151030L19

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	101	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-10-1995-5-I**	**10/23/15 17:09**	**Aqueous**	**GC 40**	**10/30/15**	**11/05/15 23:36**	**151030L19**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	122	0-123	

HCS 260 Trail	15-10-1995-6-I	10/23/15 16:50	Aqueous	GC 40	10/30/15	11/05/15 23:59	151030L19

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	113	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-10-1995-7-I**	**10/23/15 17:34**	**Aqueous**	**GC 40**	**10/30/15**	**11/06/15 00:22**	**151030L19**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	112	0-123	

FDHCS 260 Trail	15-10-1995-8-I	10/23/15 16:50	Aqueous	GC 40	10/30/15	11/06/15 00:45	151030L19

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	105	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-10-1995-9-I**	**10/23/15 17:34**	**Aqueous**	**GC 40**	**10/30/15**	**11/06/15 01:08**	**151030L19**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	100	0-123	

HSM 210 Trail	15-10-1995-11-I	10/23/15 20:35	Aqueous	GC 40	10/30/15	11/06/15 01:31	151030L19

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	115	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-10-1995-12-I**	**10/23/15 21:01**	**Aqueous**	**GC 40**	**10/30/15**	**11/06/15 01:54**	**151030L19**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	123	0-123	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-10-1995-13-I**	**10/23/15 21:21**	**Aqueous**	**GC 40**	**10/30/15**	**11/06/15 02:17**	**151030L19**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	110	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-10-1995-14-I**	**10/23/15 20:51**	**Aqueous**	**GC 40**	**10/30/15**	**11/06/15 02:40**	**151030L19**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	106	0-123	

HSM 250 Trail	15-10-1995-15-I	10/23/15 21:06	Aqueous	GC 40	10/30/15	11/06/15 03:03	151030L19

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	116	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-10-1995-16-I**	**10/23/15 21:35**	**Aqueous**	**GC 40**	**10/30/15**	**11/06/15 03:49**	**151030L19**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	125	0-123	2,7

HSM 270 Trail	15-10-1995-17-I	10/23/15 21:55	Aqueous	GC 40	10/30/15	11/06/15 04:13	151030L19

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	117	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-10-1995-18-I**	**10/23/15 20:35**	**Aqueous**	**GC 40**	**10/30/15**	**11/06/15 04:35**	**151030L19**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	145	0-123	2,7

FDHSM 230 Trail	15-10-1995-19-I	10/23/15 21:01	Aqueous	GC 40	10/30/15	11/06/15 04:58	151030L20

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	113	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-10-1995-20-I**	**10/23/15 21:21**	**Aqueous**	**GC 40**	**10/30/15**	**11/06/15 05:22**	**151030L20**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	112	0-123	

HSM 210 Lead	15-10-1995-21-I	10/23/15 15:25	Aqueous	GC 40	10/30/15	11/06/15 05:44	151030L20

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	98	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-10-1995-22-I**	**10/23/15 15:41**	**Aqueous**	**GC 40**	**10/30/15**	**11/06/15 06:08**	**151030L20**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	113	0-123	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-10-1995-23-I**	**10/23/15 16:02**	**Aqueous**	**GC 40**	**10/30/15**	**11/06/15 06:31**	**151030L20**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	106	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-10-1995-24-I**	**10/23/15 15:30**	**Aqueous**	**GC 40**	**10/30/15**	**11/06/15 06:54**	**151030L20**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	116	0-123	

HSM 250 Lead	15-10-1995-25-I	10/23/15 16:21	Aqueous	GC 40	10/30/15	11/06/15 07:17	151030L20

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	52	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-10-1995-26-I**	**10/23/15 15:58**	**Aqueous**	**GC 40**	**10/30/15**	**11/06/15 07:40**	**151030L20**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	112	0-123	

HSM 270 Lead	15-10-1995-27-I	10/23/15 16:15	Aqueous	GC 40	10/30/15	11/06/15 08:03	151030L20

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	105	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-10-1995-28-I**	**10/23/15 17:02**	**Aqueous**	**GC 40**	**10/30/15**	**11/06/15 08:26**	**151030L20**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	84	0-123	

HSM 230 Peak	15-10-1995-29-I	10/23/15 17:16	Aqueous	GC 40	10/30/15	11/06/15 08:49	151030L20

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	99	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-10-1995-30-I**	**10/23/15 17:06**	**Aqueous**	**GC 40**	**10/30/15**	**11/06/15 09:12**	**151030L20**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	109	0-123	

HSM 240 Peak	15-10-1995-31-I	10/23/15 17:34	Aqueous	GC 40	10/30/15	11/06/15 09:35	151030L20

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	116	0-123	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-10-1995-33-I**	**10/23/15 17:25**	**Aqueous**	**GC 40**	**10/30/15**	**11/06/15 09:58**	**151030L20**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	100	0-123	

HSM 270 Peak	15-10-1995-34-I	10/23/15 17:45	Aqueous	GC 40	10/30/15	11/06/15 10:21	151030L20

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	128	0-123	2,7

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-034-667**	**N/A**	**Aqueous**	**GC 40**	**10/30/15**	**11/05/15 20:32**	**151030L19**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	91	0-123	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-034-668**	**N/A**	**Aqueous**	**GC 40**	**10/30/15**	**11/05/15 21:41**	**151030L20**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Dalapon	ND	13	3.7	1.00	
Dicamba	ND	0.50	0.17	1.00	
MCPP	ND	500	170	1.00	
MCPA	ND	500	170	1.00	
Dichlorprop	ND	5.0	1.8	1.00	
2,4-D	ND	5.0	1.8	1.00	
2,4,5-TP (Silvex)	ND	0.50	0.22	1.00	
2,4,5-T	ND	0.50	0.18	1.00	
2,4-DB	ND	5.0	1.5	1.00	
Dinoseb	ND	2.5	0.95	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2,4-Dichlorophenylacetic acid	85	0-123	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-10-1995-1-H**	**10/23/15 15:01**	**Aqueous**	**GC/MS SS**	**10/30/15**	**10/31/15 17:19**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 3 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	84	33-120	
2-Fluorophenol	55	24-120	
Nitrobenzene-d5	92	38-120	
p-Terphenyl-d14	90	41-137	
Phenol-d6	34	16-120	
2,4,6-Tribromophenol	104	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-10-1995-2-H**	**10/23/15 15:16**	**Aqueous**	**GC/MS SS**	**10/30/15**	**11/02/15 11:19**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 6 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	68	33-120	
2-Fluorophenol	43	24-120	
Nitrobenzene-d5	69	38-120	
p-Terphenyl-d14	69	41-137	
Phenol-d6	27	16-120	
2,4,6-Tribromophenol	66	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-10-1995-3-H**	**10/23/15 16:14**	**Aqueous**	**GC/MS SS**	**10/30/15**	**11/02/15 11:39**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	10/27/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1995
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 9 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	91	33-120	
2-Fluorophenol	55	24-120	
Nitrobenzene-d5	95	38-120	
p-Terphenyl-d14	95	41-137	
Phenol-d6	35	16-120	
2,4,6-Tribromophenol	90	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-10-1995-4-G**	**10/23/15 16:29**	**Aqueous**	**GC/MS SS**	**10/30/15**	**11/02/15 11:58**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 12 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	72	33-120	
2-Fluorophenol	41	24-120	
Nitrobenzene-d5	75	38-120	
p-Terphenyl-d14	70	41-137	
Phenol-d6	26	16-120	
2,4,6-Tribromophenol	62	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-10-1995-5-H**	**10/23/15 17:09**	**Aqueous**	**GC/MS SS**	**10/30/15**	**10/31/15 18:38**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 15 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	87	33-120	
2-Fluorophenol	57	24-120	
Nitrobenzene-d5	97	38-120	
p-Terphenyl-d14	91	41-137	
Phenol-d6	36	16-120	
2,4,6-Tribromophenol	104	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-10-1995-6-H**	**10/23/15 16:50**	**Aqueous**	**GC/MS SS**	**10/30/15**	**10/31/15 18:58**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 18 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	74	33-120	
2-Fluorophenol	51	24-120	
Nitrobenzene-d5	83	38-120	
p-Terphenyl-d14	78	41-137	
Phenol-d6	32	16-120	
2,4,6-Tribromophenol	90	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-10-1995-7-H**	**10/23/15 17:34**	**Aqueous**	**GC/MS SS**	**10/30/15**	**10/31/15 19:17**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 21 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	87	33-120	
2-Fluorophenol	60	24-120	
Nitrobenzene-d5	99	38-120	
p-Terphenyl-d14	89	41-137	
Phenol-d6	38	16-120	
2,4,6-Tribromophenol	103	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-10-1995-8-H**	**10/23/15 16:50**	**Aqueous**	**GC/MS SS**	**10/30/15**	**10/31/15 19:37**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 24 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	80	33-120	
2-Fluorophenol	56	24-120	
Nitrobenzene-d5	89	38-120	
p-Terphenyl-d14	81	41-137	
Phenol-d6	34	16-120	
2,4,6-Tribromophenol	93	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-10-1995-9-H**	**10/23/15 17:34**	**Aqueous**	**GC/MS SS**	**10/30/15**	**10/31/15 19:57**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 27 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	82	33-120	
2-Fluorophenol	54	24-120	
Nitrobenzene-d5	91	38-120	
p-Terphenyl-d14	82	41-137	
Phenol-d6	33	16-120	
2,4,6-Tribromophenol	94	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-10-1995-11-H**	**10/23/15 20:35**	**Aqueous**	**GC/MS SS**	**10/30/15**	**10/31/15 20:17**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.9	2.8	1.00	
Acenaphthylene	ND	9.9	2.9	1.00	
Aniline	ND	9.9	1.5	1.00	
Anthracene	ND	9.9	3.0	1.00	
Azobenzene	ND	9.9	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	9.9	4.6	1.00	
Benzo (a) Pyrene	ND	9.9	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.9	2.3	1.00	
Benzo (g,h,i) Perylene	ND	9.9	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.9	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	9.9	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.9	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.9	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.9	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.9	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.9	2.5	1.00	
4-Chloro-3-Methylphenol	ND	9.9	2.4	1.00	
4-Chloroaniline	ND	9.9	2.0	1.00	
2-Chloronaphthalene	ND	9.9	2.7	1.00	
2-Chlorophenol	ND	9.9	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.9	2.6	1.00	
Chrysene	ND	9.9	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.9	2.9	1.00	
Di-n-Octyl Phthalate	ND	9.9	2.5	1.00	
Dibenz (a,h) Anthracene	ND	9.9	2.5	1.00	
Dibenzofuran	ND	9.9	2.8	1.00	
1,2-Dichlorobenzene	ND	9.9	3.0	1.00	
1,3-Dichlorobenzene	ND	9.9	3.1	1.00	
1,4-Dichlorobenzene	ND	9.9	2.8	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	9.9	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.9	2.7	1.00	
Dimethyl Phthalate	ND	9.9	2.6	1.00	
2,4-Dimethylphenol	ND	9.9	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	9.9	2.3	1.00	
2,6-Dinitrotoluene	ND	9.9	2.3	1.00	
Fluoranthene	ND	9.9	3.1	1.00	
Fluorene	ND	9.9	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	9.9	2.9	1.00	
Hexachlorobenzene	ND	9.9	3.0	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	9.9	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.9	2.1	1.00	
Isophorone	ND	9.9	2.5	1.00	
2-Methylnaphthalene	ND	9.9	2.8	1.00	
1-Methylnaphthalene	ND	9.9	2.8	1.00	
2-Methylphenol	ND	9.9	2.1	1.00	
3/4-Methylphenol	ND	9.9	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	9.9	2.3	1.00	
N-Nitrosodimethylamine	ND	9.9	3.2	1.00	
N-Nitrosodiphenylamine	ND	9.9	2.7	1.00	
Naphthalene	ND	9.9	2.8	1.00	
4-Nitroaniline	ND	9.9	2.1	1.00	
3-Nitroaniline	ND	9.9	2.2	1.00	
2-Nitroaniline	ND	9.9	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	9.9	1.6	1.00	
2-Nitrophenol	ND	9.9	2.6	1.00	
Pentachlorophenol	ND	9.9	4.6	1.00	
Phenanthrene	ND	9.9	2.9	1.00	
Phenol	ND	9.9	2.0	1.00	
Pyrene	ND	9.9	2.9	1.00	
Pyridine	ND	9.9	3.0	1.00	
1,2,4-Trichlorobenzene	ND	9.9	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.9	2.5	1.00	
2,4,5-Trichlorophenol	ND	9.9	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 30 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	88	33-120	
2-Fluorophenol	59	24-120	
Nitrobenzene-d5	96	38-120	
p-Terphenyl-d14	89	41-137	
Phenol-d6	38	16-120	
2,4,6-Tribromophenol	101	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-10-1995-12-H**	**10/23/15 21:01**	**Aqueous**	**GC/MS SS**	**10/30/15**	**10/31/15 20:36**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 33 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	77	33-120	
2-Fluorophenol	53	24-120	
Nitrobenzene-d5	88	38-120	
p-Terphenyl-d14	78	41-137	
Phenol-d6	40	16-120	
2,4,6-Tribromophenol	89	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-10-1995-13-H**	**10/23/15 21:21**	**Aqueous**	**GC/MS SS**	**10/30/15**	**10/31/15 20:56**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.7	2.7	1.00	
Acenaphthylene	ND	9.7	2.8	1.00	
Aniline	ND	9.7	1.5	1.00	
Anthracene	ND	9.7	2.9	1.00	
Azobenzene	ND	9.7	2.6	1.00	
Benzidine	ND	49	6.3	1.00	
Benzo (a) Anthracene	ND	9.7	4.5	1.00	
Benzo (a) Pyrene	ND	9.7	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.7	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.7	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.7	3.1	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.7	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.7	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.7	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.7	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.7	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.7	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.7	2.3	1.00	
4-Chloroaniline	ND	9.7	1.9	1.00	
2-Chloronaphthalene	ND	9.7	2.7	1.00	
2-Chlorophenol	ND	9.7	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.7	2.6	1.00	
Chrysene	ND	9.7	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.7	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.7	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.7	2.5	1.00	
Dibenzofuran	ND	9.7	2.7	1.00	
1,2-Dichlorobenzene	ND	9.7	3.0	1.00	
1,3-Dichlorobenzene	ND	9.7	3.0	1.00	
1,4-Dichlorobenzene	ND	9.7	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.7	2.7	1.00	
Dimethyl Phthalate	ND	9.7	2.5	1.00	
2,4-Dimethylphenol	ND	9.7	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.7	2.3	1.00	
2,6-Dinitrotoluene	ND	9.7	2.3	1.00	
Fluoranthene	ND	9.7	3.0	1.00	
Fluorene	ND	9.7	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.7	2.8	1.00	
Hexachlorobenzene	ND	9.7	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.7	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.7	2.1	1.00	
Isophorone	ND	9.7	2.5	1.00	
2-Methylnaphthalene	ND	9.7	2.7	1.00	
1-Methylnaphthalene	ND	9.7	2.7	1.00	
2-Methylphenol	ND	9.7	2.0	1.00	
3/4-Methylphenol	ND	9.7	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.7	2.3	1.00	
N-Nitrosodimethylamine	ND	9.7	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.7	2.7	1.00	
Naphthalene	ND	9.7	2.8	1.00	
4-Nitroaniline	ND	9.7	2.1	1.00	
3-Nitroaniline	ND	9.7	2.2	1.00	
2-Nitroaniline	ND	9.7	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.7	1.5	1.00	
2-Nitrophenol	ND	9.7	2.5	1.00	
Pentachlorophenol	ND	9.7	4.5	1.00	
Phenanthrene	ND	9.7	2.8	1.00	
Phenol	ND	9.7	2.0	1.00	
Pyrene	ND	9.7	2.9	1.00	
Pyridine	ND	9.7	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.7	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.7	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	10/27/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1995
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 36 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	85	33-120	
2-Fluorophenol	57	24-120	
Nitrobenzene-d5	94	38-120	
p-Terphenyl-d14	86	41-137	
Phenol-d6	36	16-120	
2,4,6-Tribromophenol	98	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-10-1995-14-H**	**10/23/15 20:51**	**Aqueous**	**GC/MS SS**	**10/30/15**	**10/31/15 21:16**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	10/27/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1995
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 39 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	67	33-120	
2-Fluorophenol	50	24-120	
Nitrobenzene-d5	79	38-120	
p-Terphenyl-d14	72	41-137	
Phenol-d6	32	16-120	
2,4,6-Tribromophenol	78	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 40 of 102

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-10-1995-15-H**	**10/23/15 21:06**	**Aqueous**	**GC/MS SS**	**10/30/15**	**11/02/15 12:18**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 42 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	58	33-120	
2-Fluorophenol	40	24-120	
Nitrobenzene-d5	62	38-120	
p-Terphenyl-d14	60	41-137	
Phenol-d6	24	16-120	
2,4,6-Tribromophenol	53	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-10-1995-16-H**	**10/23/15 21:35**	**Aqueous**	**GC/MS SS**	**10/30/15**	**11/02/15 12:38**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 45 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	71	33-120	
2-Fluorophenol	48	24-120	
Nitrobenzene-d5	77	38-120	
p-Terphenyl-d14	73	41-137	
Phenol-d6	29	16-120	
2,4,6-Tribromophenol	68	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-10-1995-17-H**	**10/23/15 21:55**	**Aqueous**	**GC/MS SS**	**10/30/15**	**11/02/15 12:57**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	10/27/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1995
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 48 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	84	33-120	
2-Fluorophenol	54	24-120	
Nitrobenzene-d5	89	38-120	
p-Terphenyl-d14	86	41-137	
Phenol-d6	33	16-120	
2,4,6-Tribromophenol	80	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-10-1995-18-H**	**10/23/15 20:35**	**Aqueous**	**GC/MS SS**	**10/30/15**	**11/02/15 13:17**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 51 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	86	33-120	
2-Fluorophenol	57	24-120	
Nitrobenzene-d5	94	38-120	
p-Terphenyl-d14	83	41-137	
Phenol-d6	33	16-120	
2,4,6-Tribromophenol	81	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-10-1995-19-H**	**10/23/15 21:01**	**Aqueous**	**GC/MS SS**	**10/30/15**	**11/02/15 13:37**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.5	1.00	
Benzo (k) Fluoranthene	ND	10	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.7	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.8	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.5	1.00	
Dibenzofuran	ND	10	2.8	1.00	
1,2-Dichlorobenzene	ND	10	3.0	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	10	2.3	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.1	1.00	
Isophorone	ND	10	2.5	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.8	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.1	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.6	1.00	
Phenanthrene	ND	10	2.9	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.8	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	10/27/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1995
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 54 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	80	33-120	
2-Fluorophenol	59	24-120	
Nitrobenzene-d5	90	38-120	
p-Terphenyl-d14	88	41-137	
Phenol-d6	38	16-120	
2,4,6-Tribromophenol	81	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-10-1995-20-H**	**10/23/15 21:21**	**Aqueous**	**GC/MS SS**	**10/30/15**	**11/02/15 13:57**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 57 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	80	33-120	
2-Fluorophenol	51	24-120	
Nitrobenzene-d5	86	38-120	
p-Terphenyl-d14	83	41-137	
Phenol-d6	31	16-120	
2,4,6-Tribromophenol	74	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-10-1995-21-H**	**10/23/15 15:25**	**Aqueous**	**GC/MS SS**	**10/30/15**	**11/02/15 14:16**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 60 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	83	33-120	
2-Fluorophenol	55	24-120	
Nitrobenzene-d5	91	38-120	
p-Terphenyl-d14	86	41-137	
Phenol-d6	34	16-120	
2,4,6-Tribromophenol	78	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 61 of 102

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-10-1995-22-H**	**10/23/15 15:41**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 17:15**	**151030L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.7	2.7	1.00	
Acenaphthylene	ND	9.7	2.8	1.00	
Aniline	ND	9.7	1.5	1.00	
Anthracene	ND	9.7	2.9	1.00	
Azobenzene	ND	9.7	2.6	1.00	
Benzidine	ND	49	6.3	1.00	
Benzo (a) Anthracene	ND	9.7	4.5	1.00	
Benzo (a) Pyrene	ND	9.7	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.7	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.7	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.7	3.1	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.7	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.7	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.7	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.7	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.7	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.7	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.7	2.3	1.00	
4-Chloroaniline	ND	9.7	1.9	1.00	
2-Chloronaphthalene	ND	9.7	2.7	1.00	
2-Chlorophenol	ND	9.7	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.7	2.6	1.00	
Chrysene	ND	9.7	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.7	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.7	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.7	2.5	1.00	
Dibenzofuran	ND	9.7	2.7	1.00	
1,2-Dichlorobenzene	ND	9.7	3.0	1.00	
1,3-Dichlorobenzene	ND	9.7	3.0	1.00	
1,4-Dichlorobenzene	ND	9.7	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.7	2.7	1.00	
Dimethyl Phthalate	ND	9.7	2.5	1.00	
2,4-Dimethylphenol	ND	9.7	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.7	2.3	1.00	
2,6-Dinitrotoluene	ND	9.7	2.3	1.00	
Fluoranthene	ND	9.7	3.0	1.00	
Fluorene	ND	9.7	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.7	2.8	1.00	
Hexachlorobenzene	ND	9.7	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.7	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.7	2.1	1.00	
Isophorone	ND	9.7	2.5	1.00	
2-Methylnaphthalene	ND	9.7	2.7	1.00	
1-Methylnaphthalene	ND	9.7	2.7	1.00	
2-Methylphenol	ND	9.7	2.0	1.00	
3/4-Methylphenol	ND	9.7	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.7	2.3	1.00	
N-Nitrosodimethylamine	ND	9.7	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.7	2.7	1.00	
Naphthalene	ND	9.7	2.8	1.00	
4-Nitroaniline	ND	9.7	2.1	1.00	
3-Nitroaniline	ND	9.7	2.2	1.00	
2-Nitroaniline	ND	9.7	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.7	1.5	1.00	
2-Nitrophenol	ND	9.7	2.5	1.00	
Pentachlorophenol	ND	9.7	4.5	1.00	
Phenanthrene	ND	9.7	2.8	1.00	
Phenol	ND	9.7	2.0	1.00	
Pyrene	ND	9.7	2.9	1.00	
Pyridine	ND	9.7	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.7	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.7	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	10/27/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1995
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 63 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	80	33-120	
2-Fluorophenol	57	24-120	
Nitrobenzene-d5	82	38-120	
p-Terphenyl-d14	78	41-137	
Phenol-d6	35	16-120	
2,4,6-Tribromophenol	96	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-10-1995-23-H**	**10/23/15 16:02**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 17:35**	**151030L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.7	2.7	1.00	
Acenaphthylene	ND	9.7	2.8	1.00	
Aniline	ND	9.7	1.5	1.00	
Anthracene	ND	9.7	2.9	1.00	
Azobenzene	ND	9.7	2.6	1.00	
Benzidine	ND	49	6.3	1.00	
Benzo (a) Anthracene	ND	9.7	4.5	1.00	
Benzo (a) Pyrene	ND	9.7	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.7	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.7	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.7	3.1	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.7	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.7	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.7	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.7	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.7	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.7	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.7	2.3	1.00	
4-Chloroaniline	ND	9.7	1.9	1.00	
2-Chloronaphthalene	ND	9.7	2.7	1.00	
2-Chlorophenol	ND	9.7	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.7	2.6	1.00	
Chrysene	ND	9.7	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.7	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.7	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.7	2.5	1.00	
Dibenzofuran	ND	9.7	2.7	1.00	
1,2-Dichlorobenzene	ND	9.7	3.0	1.00	
1,3-Dichlorobenzene	ND	9.7	3.0	1.00	
1,4-Dichlorobenzene	ND	9.7	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.7	2.7	1.00	
Dimethyl Phthalate	ND	9.7	2.5	1.00	
2,4-Dimethylphenol	ND	9.7	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.7	2.3	1.00	
2,6-Dinitrotoluene	ND	9.7	2.3	1.00	
Fluoranthene	ND	9.7	3.0	1.00	
Fluorene	ND	9.7	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.7	2.8	1.00	
Hexachlorobenzene	ND	9.7	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.7	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.7	2.1	1.00	
Isophorone	ND	9.7	2.5	1.00	
2-Methylnaphthalene	ND	9.7	2.7	1.00	
1-Methylnaphthalene	ND	9.7	2.7	1.00	
2-Methylphenol	ND	9.7	2.0	1.00	
3/4-Methylphenol	ND	9.7	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.7	2.3	1.00	
N-Nitrosodimethylamine	ND	9.7	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.7	2.7	1.00	
Naphthalene	ND	9.7	2.8	1.00	
4-Nitroaniline	ND	9.7	2.1	1.00	
3-Nitroaniline	ND	9.7	2.2	1.00	
2-Nitroaniline	ND	9.7	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.7	1.5	1.00	
2-Nitrophenol	ND	9.7	2.5	1.00	
Pentachlorophenol	ND	9.7	4.5	1.00	
Phenanthrene	ND	9.7	2.8	1.00	
Phenol	ND	9.7	2.0	1.00	
Pyrene	ND	9.7	2.9	1.00	
Pyridine	ND	9.7	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.7	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.7	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 66 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	73	33-120	
2-Fluorophenol	51	24-120	
Nitrobenzene-d5	71	38-120	
p-Terphenyl-d14	77	41-137	
Phenol-d6	32	16-120	
2,4,6-Tribromophenol	89	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-10-1995-24-H**	**10/23/15 15:30**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 17:54**	**151030L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.5	1.00	
Benzo (k) Fluoranthene	ND	10	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.7	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.8	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.5	1.00	
Dibenzofuran	ND	10	2.8	1.00	
1,2-Dichlorobenzene	ND	10	3.0	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	10	2.3	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.1	1.00	
Isophorone	ND	10	2.5	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.8	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.1	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.6	1.00	
Phenanthrene	ND	10	2.9	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.8	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 69 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	62	33-120	
2-Fluorophenol	47	24-120	
Nitrobenzene-d5	60	38-120	
p-Terphenyl-d14	66	41-137	
Phenol-d6	29	16-120	
2,4,6-Tribromophenol	79	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-10-1995-25-H**	**10/23/15 16:21**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 18:12**	**151030L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.8	2.8	1.00	
Acenaphthylene	ND	9.8	2.8	1.00	
Aniline	ND	9.8	1.5	1.00	
Anthracene	ND	9.8	3.0	1.00	
Azobenzene	ND	9.8	2.6	1.00	
Benzidine	ND	49	6.4	1.00	
Benzo (a) Anthracene	ND	9.8	4.6	1.00	
Benzo (a) Pyrene	ND	9.8	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.8	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.8	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.8	3.2	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.8	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.8	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.8	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.8	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.8	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.8	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.8	2.3	1.00	
4-Chloroaniline	ND	9.8	1.9	1.00	
2-Chloronaphthalene	ND	9.8	2.7	1.00	
2-Chlorophenol	ND	9.8	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.8	2.6	1.00	
Chrysene	ND	9.8	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.8	2.9	1.00	
Di-n-Octyl Phthalate	ND	9.8	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.8	2.5	1.00	
Dibenzofuran	ND	9.8	2.8	1.00	
1,2-Dichlorobenzene	ND	9.8	3.0	1.00	
1,3-Dichlorobenzene	ND	9.8	3.0	1.00	
1,4-Dichlorobenzene	ND	9.8	2.8	1.00	
3,3'-Dichlorobenzidine	ND	25	2.5	1.00	
2,4-Dichlorophenol	ND	9.8	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.8	2.7	1.00	
Dimethyl Phthalate	ND	9.8	2.6	1.00	
2,4-Dimethylphenol	ND	9.8	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.8	2.3	1.00	
2,6-Dinitrotoluene	ND	9.8	2.3	1.00	
Fluoranthene	ND	9.8	3.0	1.00	
Fluorene	ND	9.8	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	9.8	2.8	1.00	
Hexachlorobenzene	ND	9.8	3.0	1.00	
Hexachlorocyclopentadiene	ND	25	6.8	1.00	
Hexachloroethane	ND	9.8	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.8	2.1	1.00	
Isophorone	ND	9.8	2.5	1.00	
2-Methylnaphthalene	ND	9.8	2.8	1.00	
1-Methylnaphthalene	ND	9.8	2.8	1.00	
2-Methylphenol	ND	9.8	2.1	1.00	
3/4-Methylphenol	ND	9.8	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.8	2.3	1.00	
N-Nitrosodimethylamine	ND	9.8	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.8	2.7	1.00	
Naphthalene	ND	9.8	2.8	1.00	
4-Nitroaniline	ND	9.8	2.1	1.00	
3-Nitroaniline	ND	9.8	2.2	1.00	
2-Nitroaniline	ND	9.8	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	9.8	1.6	1.00	
2-Nitrophenol	ND	9.8	2.5	1.00	
Pentachlorophenol	ND	9.8	4.6	1.00	
Phenanthrene	ND	9.8	2.9	1.00	
Phenol	ND	9.8	2.0	1.00	
Pyrene	ND	9.8	2.9	1.00	
Pyridine	ND	9.8	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.8	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.8	2.5	1.00	
2,4,5-Trichlorophenol	ND	9.8	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 72 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	63	33-120	
2-Fluorophenol	43	24-120	
Nitrobenzene-d5	60	38-120	
p-Terphenyl-d14	70	41-137	
Phenol-d6	27	16-120	
2,4,6-Tribromophenol	81	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-10-1995-26-H**	**10/23/15 15:58**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 18:31**	**151030L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 75 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	67	33-120	
2-Fluorophenol	43	24-120	
Nitrobenzene-d5	63	38-120	
p-Terphenyl-d14	70	41-137	
Phenol-d6	26	16-120	
2,4,6-Tribromophenol	86	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-10-1995-27-H**	**10/23/15 16:15**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 18:50**	**151030L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.7	2.7	1.00	
Acenaphthylene	ND	9.7	2.8	1.00	
Aniline	ND	9.7	1.5	1.00	
Anthracene	ND	9.7	2.9	1.00	
Azobenzene	ND	9.7	2.6	1.00	
Benzidine	ND	49	6.3	1.00	
Benzo (a) Anthracene	ND	9.7	4.5	1.00	
Benzo (a) Pyrene	ND	9.7	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.7	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.7	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.7	3.1	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.7	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.7	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.7	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.7	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.7	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.7	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.7	2.3	1.00	
4-Chloroaniline	ND	9.7	1.9	1.00	
2-Chloronaphthalene	ND	9.7	2.7	1.00	
2-Chlorophenol	ND	9.7	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.7	2.6	1.00	
Chrysene	ND	9.7	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.7	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.7	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.7	2.5	1.00	
Dibenzofuran	ND	9.7	2.7	1.00	
1,2-Dichlorobenzene	ND	9.7	3.0	1.00	
1,3-Dichlorobenzene	ND	9.7	3.0	1.00	
1,4-Dichlorobenzene	ND	9.7	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.7	2.7	1.00	
Dimethyl Phthalate	ND	9.7	2.5	1.00	
2,4-Dimethylphenol	ND	9.7	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.7	2.3	1.00	
2,6-Dinitrotoluene	ND	9.7	2.3	1.00	
Fluoranthene	ND	9.7	3.0	1.00	
Fluorene	ND	9.7	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.7	2.8	1.00	
Hexachlorobenzene	ND	9.7	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.7	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.7	2.1	1.00	
Isophorone	ND	9.7	2.5	1.00	
2-Methylnaphthalene	ND	9.7	2.7	1.00	
1-Methylnaphthalene	ND	9.7	2.7	1.00	
2-Methylphenol	ND	9.7	2.0	1.00	
3/4-Methylphenol	ND	9.7	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.7	2.3	1.00	
N-Nitrosodimethylamine	ND	9.7	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.7	2.7	1.00	
Naphthalene	ND	9.7	2.8	1.00	
4-Nitroaniline	ND	9.7	2.1	1.00	
3-Nitroaniline	ND	9.7	2.2	1.00	
2-Nitroaniline	ND	9.7	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.7	1.5	1.00	
2-Nitrophenol	ND	9.7	2.5	1.00	
Pentachlorophenol	ND	9.7	4.5	1.00	
Phenanthrene	ND	9.7	2.8	1.00	
Phenol	ND	9.7	2.0	1.00	
Pyrene	ND	9.7	2.9	1.00	
Pyridine	ND	9.7	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.7	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.7	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 78 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	77	33-120	
2-Fluorophenol	51	24-120	
Nitrobenzene-d5	72	38-120	
p-Terphenyl-d14	83	41-137	
Phenol-d6	31	16-120	
2,4,6-Tribromophenol	99	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-10-1995-28-H**	**10/23/15 17:02**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 19:09**	**151030L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.8	2.8	1.00	
Acenaphthylene	ND	9.8	2.8	1.00	
Aniline	ND	9.8	1.5	1.00	
Anthracene	ND	9.8	3.0	1.00	
Azobenzene	ND	9.8	2.6	1.00	
Benzidine	ND	49	6.4	1.00	
Benzo (a) Anthracene	ND	9.8	4.6	1.00	
Benzo (a) Pyrene	ND	9.8	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.8	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.8	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.8	3.2	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.8	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.8	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.8	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.8	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.8	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.8	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.8	2.3	1.00	
4-Chloroaniline	ND	9.8	1.9	1.00	
2-Chloronaphthalene	ND	9.8	2.7	1.00	
2-Chlorophenol	ND	9.8	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.8	2.6	1.00	
Chrysene	ND	9.8	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.8	2.9	1.00	
Di-n-Octyl Phthalate	ND	9.8	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.8	2.5	1.00	
Dibenzofuran	ND	9.8	2.8	1.00	
1,2-Dichlorobenzene	ND	9.8	3.0	1.00	
1,3-Dichlorobenzene	ND	9.8	3.0	1.00	
1,4-Dichlorobenzene	ND	9.8	2.8	1.00	
3,3'-Dichlorobenzidine	ND	25	2.5	1.00	
2,4-Dichlorophenol	ND	9.8	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.8	2.7	1.00	
Dimethyl Phthalate	ND	9.8	2.6	1.00	
2,4-Dimethylphenol	ND	9.8	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.8	2.3	1.00	
2,6-Dinitrotoluene	ND	9.8	2.3	1.00	
Fluoranthene	ND	9.8	3.0	1.00	
Fluorene	ND	9.8	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	9.8	2.8	1.00	
Hexachlorobenzene	ND	9.8	3.0	1.00	
Hexachlorocyclopentadiene	ND	25	6.8	1.00	
Hexachloroethane	ND	9.8	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.8	2.1	1.00	
Isophorone	ND	9.8	2.5	1.00	
2-Methylnaphthalene	ND	9.8	2.8	1.00	
1-Methylnaphthalene	ND	9.8	2.8	1.00	
2-Methylphenol	ND	9.8	2.1	1.00	
3/4-Methylphenol	ND	9.8	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.8	2.3	1.00	
N-Nitrosodimethylamine	ND	9.8	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.8	2.7	1.00	
Naphthalene	ND	9.8	2.8	1.00	
4-Nitroaniline	ND	9.8	2.1	1.00	
3-Nitroaniline	ND	9.8	2.2	1.00	
2-Nitroaniline	ND	9.8	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	9.8	1.6	1.00	
2-Nitrophenol	ND	9.8	2.5	1.00	
Pentachlorophenol	ND	9.8	4.6	1.00	
Phenanthrene	ND	9.8	2.9	1.00	
Phenol	ND	9.8	2.0	1.00	
Pyrene	ND	9.8	2.9	1.00	
Pyridine	ND	9.8	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.8	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.8	2.5	1.00	
2,4,5-Trichlorophenol	ND	9.8	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 81 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	78	33-120	
2-Fluorophenol	62	24-120	
Nitrobenzene-d5	79	38-120	
p-Terphenyl-d14	79	41-137	
Phenol-d6	51	16-120	
2,4,6-Tribromophenol	97	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-10-1995-29-H**	**10/23/15 17:16**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 19:27**	**151030L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	10/27/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1995
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 84 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	74	33-120	
2-Fluorophenol	53	24-120	
Nitrobenzene-d5	73	38-120	
p-Terphenyl-d14	76	41-137	
Phenol-d6	33	16-120	
2,4,6-Tribromophenol	91	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-10-1995-30-H**	**10/23/15 17:06**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 19:46**	**151030L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.7	2.7	1.00	
Acenaphthylene	ND	9.7	2.8	1.00	
Aniline	ND	9.7	1.5	1.00	
Anthracene	ND	9.7	2.9	1.00	
Azobenzene	ND	9.7	2.6	1.00	
Benzidine	ND	49	6.3	1.00	
Benzo (a) Anthracene	ND	9.7	4.5	1.00	
Benzo (a) Pyrene	ND	9.7	2.4	1.00	
Benzo (b) Fluoranthene	ND	9.7	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.7	2.5	1.00	
Benzo (k) Fluoranthene	ND	9.7	3.1	1.00	
Benzoic Acid	ND	49	12	1.00	
Benzyl Alcohol	ND	9.7	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.7	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.7	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.7	3.1	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.7	2.7	1.00	
Butyl Benzyl Phthalate	ND	9.7	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.7	2.3	1.00	
4-Chloroaniline	ND	9.7	1.9	1.00	
2-Chloronaphthalene	ND	9.7	2.7	1.00	
2-Chlorophenol	ND	9.7	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.7	2.6	1.00	
Chrysene	ND	9.7	2.8	1.00	
Di-n-Butyl Phthalate	ND	9.7	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.7	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.7	2.5	1.00	
Dibenzofuran	ND	9.7	2.7	1.00	
1,2-Dichlorobenzene	ND	9.7	3.0	1.00	
1,3-Dichlorobenzene	ND	9.7	3.0	1.00	
1,4-Dichlorobenzene	ND	9.7	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.7	2.7	1.00	
Dimethyl Phthalate	ND	9.7	2.5	1.00	
2,4-Dimethylphenol	ND	9.7	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	49	14	1.00	
2,4-Dinitrophenol	ND	49	13	1.00	
2,4-Dinitrotoluene	ND	9.7	2.3	1.00	
2,6-Dinitrotoluene	ND	9.7	2.3	1.00	
Fluoranthene	ND	9.7	3.0	1.00	
Fluorene	ND	9.7	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.7	2.8	1.00	
Hexachlorobenzene	ND	9.7	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.7	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.7	2.1	1.00	
Isophorone	ND	9.7	2.5	1.00	
2-Methylnaphthalene	ND	9.7	2.7	1.00	
1-Methylnaphthalene	ND	9.7	2.7	1.00	
2-Methylphenol	ND	9.7	2.0	1.00	
3/4-Methylphenol	ND	9.7	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.7	2.3	1.00	
N-Nitrosodimethylamine	ND	9.7	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.7	2.7	1.00	
Naphthalene	ND	9.7	2.8	1.00	
4-Nitroaniline	ND	9.7	2.1	1.00	
3-Nitroaniline	ND	9.7	2.2	1.00	
2-Nitroaniline	ND	9.7	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.7	1.5	1.00	
2-Nitrophenol	ND	9.7	2.5	1.00	
Pentachlorophenol	ND	9.7	4.5	1.00	
Phenanthrene	ND	9.7	2.8	1.00	
Phenol	ND	9.7	2.0	1.00	
Pyrene	ND	9.7	2.9	1.00	
Pyridine	ND	9.7	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.7	2.8	1.00	
2,4,6-Trichlorophenol	ND	9.7	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.7	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	10/27/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1995
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 87 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	73	33-120	
2-Fluorophenol	52	24-120	
Nitrobenzene-d5	72	38-120	
p-Terphenyl-d14	75	41-137	
Phenol-d6	35	16-120	
2,4,6-Tribromophenol	88	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-10-1995-31-H**	**10/23/15 17:34**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 20:05**	**151030L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 90 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	76	33-120	
2-Fluorophenol	50	24-120	
Nitrobenzene-d5	75	38-120	
p-Terphenyl-d14	75	41-137	
Phenol-d6	30	16-120	
2,4,6-Tribromophenol	91	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-10-1995-33-H**	**10/23/15 17:25**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 20:23**	**151030L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.5	2.7	1.00	
Acenaphthylene	ND	9.5	2.8	1.00	
Aniline	ND	9.5	1.4	1.00	
Anthracene	ND	9.5	2.9	1.00	
Azobenzene	ND	9.5	2.5	1.00	
Benzidine	ND	48	6.2	1.00	
Benzo (a) Anthracene	ND	9.5	4.4	1.00	
Benzo (a) Pyrene	ND	9.5	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.5	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.5	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.5	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.5	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.5	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.3	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.5	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.5	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.5	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.5	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.5	2.3	1.00	
4-Chloroaniline	ND	9.5	1.9	1.00	
2-Chloronaphthalene	ND	9.5	2.6	1.00	
2-Chlorophenol	ND	9.5	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.5	2.5	1.00	
Chrysene	ND	9.5	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.5	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.5	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.5	2.4	1.00	
Dibenzofuran	ND	9.5	2.7	1.00	
1,2-Dichlorobenzene	ND	9.5	2.9	1.00	
1,3-Dichlorobenzene	ND	9.5	3.0	1.00	
1,4-Dichlorobenzene	ND	9.5	2.7	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.5	2.6	1.00	
Dimethyl Phthalate	ND	9.5	2.5	1.00	
2,4-Dimethylphenol	ND	9.5	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.5	2.2	1.00	
2,6-Dinitrotoluene	ND	9.5	2.2	1.00	
Fluoranthene	ND	9.5	3.0	1.00	
Fluorene	ND	9.5	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.5	2.8	1.00	
Hexachlorobenzene	ND	9.5	2.9	1.00	
Hexachlorocyclopentadiene	ND	24	6.6	1.00	
Hexachloroethane	ND	9.5	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.5	2.0	1.00	
Isophorone	ND	9.5	2.4	1.00	
2-Methylnaphthalene	ND	9.5	2.7	1.00	
1-Methylnaphthalene	ND	9.5	2.7	1.00	
2-Methylphenol	ND	9.5	2.0	1.00	
3/4-Methylphenol	ND	9.5	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.5	2.2	1.00	
N-Nitrosodimethylamine	ND	9.5	3.0	1.00	
N-Nitrosodiphenylamine	ND	9.5	2.6	1.00	
Naphthalene	ND	9.5	2.7	1.00	
4-Nitroaniline	ND	9.5	2.0	1.00	
3-Nitroaniline	ND	9.5	2.2	1.00	
2-Nitroaniline	ND	9.5	2.1	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.5	1.5	1.00	
2-Nitrophenol	ND	9.5	2.5	1.00	
Pentachlorophenol	ND	9.5	4.4	1.00	
Phenanthrene	ND	9.5	2.8	1.00	
Phenol	ND	9.5	2.0	1.00	
Pyrene	ND	9.5	2.8	1.00	
Pyridine	ND	9.5	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.5	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.5	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.5	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	10/27/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1995
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 93 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	74	33-120	
2-Fluorophenol	48	24-120	
Nitrobenzene-d5	69	38-120	
p-Terphenyl-d14	80	41-137	
Phenol-d6	31	16-120	
2,4,6-Tribromophenol	94	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-10-1995-34-H**	**10/23/15 17:45**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 20:42**	**151030L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	9.6	2.7	1.00	
Acenaphthylene	ND	9.6	2.8	1.00	
Aniline	ND	9.6	1.4	1.00	
Anthracene	ND	9.6	2.9	1.00	
Azobenzene	ND	9.6	2.5	1.00	
Benzidine	ND	48	6.3	1.00	
Benzo (a) Anthracene	ND	9.6	4.5	1.00	
Benzo (a) Pyrene	ND	9.6	2.3	1.00	
Benzo (b) Fluoranthene	ND	9.6	2.2	1.00	
Benzo (g,h,i) Perylene	ND	9.6	2.4	1.00	
Benzo (k) Fluoranthene	ND	9.6	3.1	1.00	
Benzoic Acid	ND	48	12	1.00	
Benzyl Alcohol	ND	9.6	2.1	1.00	
Bis(2-Chloroethoxy) Methane	ND	9.6	2.4	1.00	
Bis(2-Chloroethyl) Ether	ND	24	2.4	1.00	
Bis(2-Chloroisopropyl) Ether	ND	9.6	3.1	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	9.6	3.0	1.00	
4-Bromophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Butyl Benzyl Phthalate	ND	9.6	2.4	1.00	
4-Chloro-3-Methylphenol	ND	9.6	2.3	1.00	
4-Chloroaniline	ND	9.6	1.9	1.00	
2-Chloronaphthalene	ND	9.6	2.7	1.00	
2-Chlorophenol	ND	9.6	2.2	1.00	
4-Chlorophenyl-Phenyl Ether	ND	9.6	2.6	1.00	
Chrysene	ND	9.6	2.7	1.00	
Di-n-Butyl Phthalate	ND	9.6	2.8	1.00	
Di-n-Octyl Phthalate	ND	9.6	2.4	1.00	
Dibenz (a,h) Anthracene	ND	9.6	2.4	1.00	
Dibenzofuran	ND	9.6	2.7	1.00	
1,2-Dichlorobenzene	ND	9.6	2.9	1.00	
1,3-Dichlorobenzene	ND	9.6	3.0	1.00	
1,4-Dichlorobenzene	ND	9.6	2.8	1.00	
3,3'-Dichlorobenzidine	ND	24	2.5	1.00	
2,4-Dichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	9.6	2.7	1.00	
Dimethyl Phthalate	ND	9.6	2.5	1.00	
2,4-Dimethylphenol	ND	9.6	2.3	1.00	
4,6-Dinitro-2-Methylphenol	ND	48	14	1.00	
2,4-Dinitrophenol	ND	48	13	1.00	
2,4-Dinitrotoluene	ND	9.6	2.2	1.00	
2,6-Dinitrotoluene	ND	9.6	2.3	1.00	
Fluoranthene	ND	9.6	3.0	1.00	
Fluorene	ND	9.6	2.6	1.00	
Hexachloro-1,3-Butadiene	ND	9.6	2.8	1.00	
Hexachlorobenzene	ND	9.6	3.0	1.00	
Hexachlorocyclopentadiene	ND	24	6.7	1.00	
Hexachloroethane	ND	9.6	2.9	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	9.6	2.1	1.00	
Isophorone	ND	9.6	2.4	1.00	
2-Methylnaphthalene	ND	9.6	2.7	1.00	
1-Methylnaphthalene	ND	9.6	2.7	1.00	
2-Methylphenol	ND	9.6	2.0	1.00	
3/4-Methylphenol	ND	9.6	2.1	1.00	
N-Nitroso-di-n-propylamine	ND	9.6	2.3	1.00	
N-Nitrosodimethylamine	ND	9.6	3.1	1.00	
N-Nitrosodiphenylamine	ND	9.6	2.6	1.00	
Naphthalene	ND	9.6	2.8	1.00	
4-Nitroaniline	ND	9.6	2.1	1.00	
3-Nitroaniline	ND	9.6	2.2	1.00	
2-Nitroaniline	ND	9.6	2.2	1.00	
Nitrobenzene	ND	24	2.9	1.00	
4-Nitrophenol	ND	9.6	1.5	1.00	
2-Nitrophenol	ND	9.6	2.5	1.00	
Pentachlorophenol	ND	9.6	4.5	1.00	
Phenanthrene	ND	9.6	2.8	1.00	
Phenol	ND	9.6	2.0	1.00	
Pyrene	ND	9.6	2.9	1.00	
Pyridine	ND	9.6	2.9	1.00	
1,2,4-Trichlorobenzene	ND	9.6	2.7	1.00	
2,4,6-Trichlorophenol	ND	9.6	2.4	1.00	
2,4,5-Trichlorophenol	ND	9.6	2.4	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	10/27/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1995
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 96 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	69	33-120	
2-Fluorophenol	47	24-120	
Nitrobenzene-d5	66	38-120	
p-Terphenyl-d14	77	41-137	
Phenol-d6	29	16-120	
2,4,6-Tribromophenol	91	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-4133**	**N/A**	**Aqueous**	**GC/MS SS**	**10/30/15**	**10/31/15 16:20**	**151030L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.5	1.00	
Benzo (k) Fluoranthene	ND	10	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.7	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.8	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.5	1.00	
Dibenzofuran	ND	10	2.8	1.00	
1,2-Dichlorobenzene	ND	10	3.0	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	10	2.3	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.1	1.00	
Isophorone	ND	10	2.5	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.8	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.1	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.6	1.00	
Phenanthrene	ND	10	2.9	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.8	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants	Date Received:	10/27/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1995
San Antonio, TX 78249-1618	Preparation:	EPA 3510C
	Method:	EPA 8270C
	Units:	ug/L
Project: EAA 27122		Page 99 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	68	33-120	
2-Fluorophenol	74	24-120	
Nitrobenzene-d5	75	38-120	
p-Terphenyl-d14	69	41-137	
Phenol-d6	74	16-120	
2,4,6-Tribromophenol	77	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-4132**	**N/A**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 21:38**	**151030L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	10	2.8	1.00	
Acenaphthylene	ND	10	2.9	1.00	
Aniline	ND	10	1.5	1.00	
Anthracene	ND	10	3.0	1.00	
Azobenzene	ND	10	2.6	1.00	
Benzidine	ND	50	6.5	1.00	
Benzo (a) Anthracene	ND	10	4.7	1.00	
Benzo (a) Pyrene	ND	10	2.4	1.00	
Benzo (b) Fluoranthene	ND	10	2.3	1.00	
Benzo (g,h,i) Perylene	ND	10	2.5	1.00	
Benzo (k) Fluoranthene	ND	10	3.2	1.00	
Benzoic Acid	ND	50	12	1.00	
Benzyl Alcohol	ND	10	2.2	1.00	
Bis(2-Chloroethoxy) Methane	ND	10	2.5	1.00	
Bis(2-Chloroethyl) Ether	ND	25	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	10	3.2	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	10	3.2	1.00	
4-Bromophenyl-Phenyl Ether	ND	10	2.7	1.00	
Butyl Benzyl Phthalate	ND	10	2.5	1.00	
4-Chloro-3-Methylphenol	ND	10	2.4	1.00	
4-Chloroaniline	ND	10	2.0	1.00	
2-Chloronaphthalene	ND	10	2.8	1.00	
2-Chlorophenol	ND	10	2.3	1.00	
4-Chlorophenyl-Phenyl Ether	ND	10	2.7	1.00	
Chrysene	ND	10	2.8	1.00	
Di-n-Butyl Phthalate	ND	10	2.9	1.00	
Di-n-Octyl Phthalate	ND	10	2.5	1.00	
Dibenz (a,h) Anthracene	ND	10	2.5	1.00	
Dibenzofuran	ND	10	2.8	1.00	
1,2-Dichlorobenzene	ND	10	3.0	1.00	
1,3-Dichlorobenzene	ND	10	3.1	1.00	
1,4-Dichlorobenzene	ND	10	2.9	1.00	
3,3'-Dichlorobenzidine	ND	25	2.6	1.00	
2,4-Dichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	10	2.8	1.00	
Dimethyl Phthalate	ND	10	2.6	1.00	
2,4-Dimethylphenol	ND	10	2.4	1.00	
4,6-Dinitro-2-Methylphenol	ND	50	14	1.00	
2,4-Dinitrophenol	ND	50	13	1.00	
2,4-Dinitrotoluene	ND	10	2.3	1.00	
2,6-Dinitrotoluene	ND	10	2.4	1.00	
Fluoranthene	ND	10	3.1	1.00	
Fluorene	ND	10	2.7	1.00	
Hexachloro-1,3-Butadiene	ND	10	2.9	1.00	
Hexachlorobenzene	ND	10	3.1	1.00	
Hexachlorocyclopentadiene	ND	25	6.9	1.00	
Hexachloroethane	ND	10	3.0	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	10	2.1	1.00	
Isophorone	ND	10	2.5	1.00	
2-Methylnaphthalene	ND	10	2.8	1.00	
1-Methylnaphthalene	ND	10	2.8	1.00	
2-Methylphenol	ND	10	2.1	1.00	
3/4-Methylphenol	ND	10	2.2	1.00	
N-Nitroso-di-n-propylamine	ND	10	2.4	1.00	
N-Nitrosodimethylamine	ND	10	3.2	1.00	
N-Nitrosodiphenylamine	ND	10	2.8	1.00	
Naphthalene	ND	10	2.9	1.00	
4-Nitroaniline	ND	10	2.1	1.00	
3-Nitroaniline	ND	10	2.3	1.00	
2-Nitroaniline	ND	10	2.2	1.00	
Nitrobenzene	ND	25	3.0	1.00	
4-Nitrophenol	ND	10	1.6	1.00	
2-Nitrophenol	ND	10	2.6	1.00	
Pentachlorophenol	ND	10	4.6	1.00	
Phenanthrene	ND	10	2.9	1.00	
Phenol	ND	10	2.1	1.00	
Pyrene	ND	10	3.0	1.00	
Pyridine	ND	10	3.0	1.00	
1,2,4-Trichlorobenzene	ND	10	2.8	1.00	
2,4,6-Trichlorophenol	ND	10	2.5	1.00	
2,4,5-Trichlorophenol	ND	10	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: EAA 27122			Page 102 of 102

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	69	33-120	
2-Fluorophenol	71	24-120	
Nitrobenzene-d5	62	38-120	
p-Terphenyl-d14	64	41-137	
Phenol-d6	67	16-120	
2,4,6-Tribromophenol	74	27-159	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Peak	**15-10-1995-1-B**	**10/23/15 15:01**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 13:50**	**151030L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	80-120	
Dibromofluoromethane	91	78-126	
1,2-Dichloroethane-d4	86	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Peak	**15-10-1995-2-B**	**10/23/15 15:16**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 17:04**	**151030L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	80-120	
Dibromofluoromethane	90	78-126	
1,2-Dichloroethane-d4	82	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 210 Trail	**15-10-1995-3-B**	**10/23/15 16:14**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 17:32**	**151030L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	80-120	
Dibromofluoromethane	90	78-126	
1,2-Dichloroethane-d4	84	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 240 Trail	**15-10-1995-4-B**	**10/23/15 16:29**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 18:00**	**151030L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	85	80-120	
Dibromofluoromethane	91	78-126	
1,2-Dichloroethane-d4	83	75-135	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 250 Trail	**15-10-1995-5-B**	**10/23/15 17:09**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 18:28**	**151030L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	86	80-120	
Dibromofluoromethane	92	78-126	
1,2-Dichloroethane-d4	85	75-135	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: EAA 27122			Page 11 of 72

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 260 Trail	**15-10-1995-6-B**	**10/23/15 16:50**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 18:56**	**151030L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	83	80-120	
Dibromofluoromethane	91	78-126	
1,2-Dichloroethane-d4	85	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HCS 270 Trail	**15-10-1995-7-B**	**10/23/15 17:34**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 19:23**	**151030L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	80-120	
Dibromofluoromethane	90	78-126	
1,2-Dichloroethane-d4	85	75-135	
Toluene-d8	103	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 260 Trail	**15-10-1995-8-B**	**10/23/15 16:50**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 19:51**	**151030L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	80-120	
Dibromofluoromethane	90	78-126	
1,2-Dichloroethane-d4	85	75-135	
Toluene-d8	104	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHCS 270 Trail	**15-10-1995-9-B**	**10/23/15 17:34**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 20:19**	**151030L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	84	80-120	
Dibromofluoromethane	93	78-126	
1,2-Dichloroethane-d4	88	75-135	
Toluene-d8	109	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB15	**15-10-1995-10-A**	**10/23/15 00:00**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 16:37**	**151030L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	80-120	
Dibromofluoromethane	92	78-126	
1,2-Dichloroethane-d4	85	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Trail	**15-10-1995-11-B**	**10/23/15 20:35**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 20:46**	**151030L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	84	80-120	
Dibromofluoromethane	95	78-126	
1,2-Dichloroethane-d4	90	75-135	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: EAA 27122			Page 23 of 72

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Trail	**15-10-1995-12-B**	**10/23/15 21:01**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 21:14**	**151030L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	85	80-120	
Dibromofluoromethane	92	78-126	
1,2-Dichloroethane-d4	84	75-135	
Toluene-d8	104	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Trail	**15-10-1995-13-B**	**10/23/15 21:21**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 21:41**	**151030L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	85	80-120	
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	88	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Trail	**15-10-1995-14-A**	**10/23/15 20:51**	**Aqueous**	**GC/MS JJ**	**10/30/15**	**10/30/15 14:34**	**151030L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	80-120	
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: EAA 27122			Page 29 of 72

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Trail	**15-10-1995-15-A**	**10/23/15 21:06**	**Aqueous**	**GC/MS JJ**	**10/30/15**	**10/30/15 15:02**	**151030L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	80-120	
Dibromofluoromethane	100	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	96	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Trail	**15-10-1995-16-A**	**10/23/15 21:35**	**Aqueous**	**GC/MS JJ**	**10/30/15**	**10/30/15 15:30**	**151030L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	80-120	
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Trail	**15-10-1995-17-A**	**10/23/15 21:55**	**Aqueous**	**GC/MS JJ**	**10/30/15**	**10/30/15 12:17**	**151030L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	100	78-126	
1,2-Dichloroethane-d4	101	75-135	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 210 Trail	**15-10-1995-18-A**	**10/23/15 20:35**	**Aqueous**	**GC/MS JJ**	**10/30/15**	**10/30/15 15:57**	**151030L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	80-120	
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	105	75-135	
Toluene-d8	96	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 230 Trail	**15-10-1995-19-A**	**10/23/15 21:01**	**Aqueous**	**GC/MS JJ**	**10/30/15**	**10/30/15 16:25**	**151030L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	80-120	
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	96	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FDHSM 231 Trail	**15-10-1995-20-A**	**10/23/15 21:21**	**Aqueous**	**GC/MS JJ**	**10/30/15**	**10/30/15 16:53**	**151030L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	80-120	
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	96	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Lead	**15-10-1995-21-A**	**10/23/15 15:25**	**Aqueous**	**GC/MS JJ**	**10/30/15**	**10/30/15 17:20**	**151030L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Lead	**15-10-1995-22-A**	**10/23/15 15:41**	**Aqueous**	**GC/MS QQ**	**10/30/15**	**10/30/15 17:12**	**151030L010**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	1.1	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	101	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Lead	**15-10-1995-23-A**	**10/23/15 16:02**	**Aqueous**	**GC/MS QQ**	**10/30/15**	**10/30/15 13:39**	**151030L010**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	104	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Lead	**15-10-1995-24-A**	**10/23/15 15:30**	**Aqueous**	**GC/MS QQ**	**10/30/15**	**10/30/15 17:38**	**151030L010**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	0.38	1.0	0.37	1.00	J
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	104	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: EAA 27122			Page 49 of 72

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 250 Lead	**15-10-1995-25-A**	**10/23/15 16:21**	**Aqueous**	**GC/MS QQ**	**10/30/15**	**10/30/15 18:05**	**151030L010**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	104	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Lead	**15-10-1995-26-A**	**10/23/15 15:58**	**Aqueous**	**GC/MS QQ**	**10/30/15**	**10/30/15 18:31**	**151030L010**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Lead	**15-10-1995-27-A**	**10/23/15 16:15**	**Aqueous**	**GC/MS QQ**	**10/30/15**	**10/30/15 18:58**	**151030L010**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 210 Peak	**15-10-1995-28-A**	**10/23/15 17:02**	**Aqueous**	**GC/MS QQ**	**10/30/15**	**10/30/15 19:25**	**151030L010**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	107	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 230 Peak	**15-10-1995-29-A**	**10/23/15 17:16**	**Aqueous**	**GC/MS QQ**	**10/30/15**	**10/30/15 19:51**	**151030L010**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 231 Peak	**15-10-1995-30-A**	**10/23/15 17:06**	**Aqueous**	**GC/MS QQ**	**10/30/15**	**10/30/15 20:18**	**151030L010**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 240 Peak	**15-10-1995-31-A**	**10/23/15 17:34**	**Aqueous**	**GC/MS QQ**	**10/30/15**	**10/30/15 20:44**	**151030L010**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	0.26	1.0	0.24	1.00	J
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 260 Peak	**15-10-1995-33-A**	**10/23/15 17:25**	**Aqueous**	**GC/MS QQ**	**10/30/15**	**10/30/15 21:11**	**151030L010**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	106	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
HSM 270 Peak	**15-10-1995-34-A**	**10/23/15 17:45**	**Aqueous**	**GC/MS QQ**	**10/30/15**	**10/30/15 21:37**	**151030L010**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	106	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-18638**	**N/A**	**Aqueous**	**GC/MS JJ**	**10/30/15**	**10/30/15 11:50**	**151030L001**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	80-120	
Dibromofluoromethane	100	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-18641**	**N/A**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 13:14**	**151030L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	80-120	
Dibromofluoromethane	90	78-126	
1,2-Dichloroethane-d4	87	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-18642**	**N/A**	**Aqueous**	**GC/MS QQ**	**10/30/15**	**10/30/15 12:46**	**151030L010**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: EAA 27122

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	80-120	
Dibromofluoromethane	103	78-126	
1,2-Dichloroethane-d4	98	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 260 Peak	**15-10-1995-1**	**10/23/15 15:01**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.050	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	203	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	203	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	305	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	8.7	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.48	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	10	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 270 Peak	**15-10-1995-2**	**10/23/15 15:16**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.055	0.050	0.020	1.00		mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	204	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	204	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	285	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	14	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.56	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.70	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 210 Trail	**15-10-1995-3**	**10/23/15 16:14**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.16	0.050	0.020	1.00		mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	102	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	102	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	125	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	9.5	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.50	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.98	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 240 Trail	**15-10-1995-4**	**10/23/15 16:29**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.031	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	230	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	230	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	295	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	1.4	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.54	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	1.1	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 250 Trail	**15-10-1995-5**	**10/23/15 17:09**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.046	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	208	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	208	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	235	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	1.7	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.54	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.70	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 260 Trail	**15-10-1995-6**	**10/23/15 16:50**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.040	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	219	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	219	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	275	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	5.7	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.66	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.84	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HCS 270 Trail	**15-10-1995-7**	**10/23/15 17:34**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.050	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	206	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	206	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	315	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	2.4	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.68	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.98	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
FDHCS 260 Trail	**15-10-1995-8**	**10/23/15 16:50**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.039	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	220	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	220	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	285	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	2.8	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.68	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.56	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
FDHCS 270 Trail	**15-10-1995-9**	**10/23/15 17:34**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.038	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	206	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	206	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	295	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	4.4	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.69	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.84	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

HSM 210 Trail	**15-10-1995-11**	**10/23/15 20:35**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.026	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	228	5.00	0.848	1.00		mg/L	N/A	11/06/15	SM 2320B
Bicarbonate (as CaCO3) (24)	228	5.00	0.848	1.00		mg/L	N/A	11/06/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/06/15	SM 2320B
Solids, Total Dissolved (24)	345	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	2.0	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.43	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.56	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 230 Trail	**15-10-1995-12**	**10/23/15 21:01**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.039	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	228	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	228	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	290	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.36	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.84	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 231 Trail	**15-10-1995-13**	**10/23/15 21:21**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.034	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	245	5.00	0.848	1.00		mg/L	N/A	11/06/15	SM 2320B
Bicarbonate (as CaCO3) (24)	245	5.00	0.848	1.00		mg/L	N/A	11/06/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/06/15	SM 2320B
Solids, Total Dissolved (24)	235	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.48	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.84	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 240 Trail	**15-10-1995-14**	**10/23/15 20:51**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.027	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	248	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	248	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	270	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.49	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.28	0.50	0.28	1.00	J	mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

HSM 250 Trail	**15-10-1995-15**	**10/23/15 21:06**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.024	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	162	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	162	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	315	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	1.8	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.55	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.49	0.50	0.28	1.00	J	mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 260 Trail	**15-10-1995-16**	**10/23/15 21:35**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.033	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	148	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	148	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	305	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	3.7	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.68	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.28	0.50	0.28	1.00	J	mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

HSM 270 Trail	**15-10-1995-17**	**10/23/15 21:55**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.038	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	142	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	142	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	270	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	6.5	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.63	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.28	0.50	0.28	1.00	J	mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
FDHSM 210 Trail	**15-10-1995-18**	**10/23/15 20:35**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.036	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	233	5.00	0.848	1.00		mg/L	N/A	11/06/15	SM 2320B
Bicarbonate (as CaCO3) (24)	233	5.00	0.848	1.00		mg/L	N/A	11/06/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/06/15	SM 2320B
Solids, Total Dissolved (24)	370	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	4.7	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.39	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

FDHSM 230 Trail	**15-10-1995-19**	**10/23/15 21:01**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.058	0.050	0.020	1.00		mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	222	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	222	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	310	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	4.0	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.10	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.84	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/10/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
FDHSM 231 Trail	**15-10-1995-20**	**10/23/15 21:21**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.031	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	245	5.00	0.848	1.00		mg/L	N/A	11/06/15	SM 2320B
Bicarbonate (as CaCO3) (24)	245	5.00	0.848	1.00		mg/L	N/A	11/06/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/06/15	SM 2320B
Solids, Total Dissolved (24)	295	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	1.1	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.28	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.28	0.50	0.28	1.00	J	mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	7.4	2.5	1.2	5.00		mg/L	11/10/15	11/11/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/11/15	SM 5310 B

HSM 210 Lead	**15-10-1995-21**	**10/23/15 15:25**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.028	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	203	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	203	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	345	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	9.9	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.20	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	1.5	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	5.1	2.5	1.2	5.00		mg/L	11/10/15	11/11/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/11/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 230 Lead	**15-10-1995-22**	**10/23/15 15:41**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.12	0.050	0.020	1.00		mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	123	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	123	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	215	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	161	1.00	0.829	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.14	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	2.0	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	18	2.5	1.2	5.00		mg/L	11/10/15	11/11/15	SM 5310 B
Carbon, Dissolved Organic (24)	5.0	2.5	1.2	5.00		mg/L	11/05/15	11/11/15	SM 5310 B

HSM 231 Lead	**15-10-1995-23**	**10/23/15 16:02**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.061	0.050	0.020	1.00		mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	203	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	203	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	285	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	9.2	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.34	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	1.3	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	2.3	2.5	1.2	5.00	J	mg/L	11/10/15	11/11/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/11/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 240 Lead	**15-10-1995-24**	**10/23/15 15:30**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.092	0.050	0.020	1.00		mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	208	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	208	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	280	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	137	1.00	0.829	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.40	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.77	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/10/15	11/11/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/11/15	SM 5310 B

HSM 250 Lead	**15-10-1995-25**	**10/23/15 16:21**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.073	0.050	0.020	1.00		mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	203	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	203	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	390	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	12	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.38	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.77	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	3.4	2.5	1.2	5.00		mg/L	11/10/15	11/11/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/11/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 260 Lead	**15-10-1995-26**	**10/23/15 15:58**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.037	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	246	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	246	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	315	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	26	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.52	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.35	0.50	0.28	1.00	J	mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/10/15	11/11/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/11/15	SM 5310 B

HSM 270 Lead	**15-10-1995-27**	**10/23/15 16:15**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.045	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	201	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	201	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	300	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	49	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.68	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/10/15	11/11/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/11/15	SM 5310 B

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 210 Peak	**15-10-1995-28**	**10/23/15 17:02**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.020	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	156	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	156	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	330	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	4.9	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.41	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	3.1	2.5	1.2	5.00		mg/L	11/10/15	11/11/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/11/15	SM 5310 B

HSM 230 Peak	15-10-1995-29	10/23/15 17:16	Aqueous

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.035	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	248	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	248	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	330	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.26	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	5.7	2.5	1.2	5.00		mg/L	11/10/15	11/11/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/11/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 231 Peak	**15-10-1995-30**	**10/23/15 17:06**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.025	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	150	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	150	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	320	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	5.3	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.37	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/10/15	11/11/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/11/15	SM 5310 B

HSM 240 Peak	15-10-1995-31	10/23/15 17:34	Aqueous

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.020	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	144	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	144	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	315	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	4.3	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.43	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.42	0.50	0.28	1.00	J	mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/10/15	11/11/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/11/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
HSM 260 Peak	**15-10-1995-33**	**10/23/15 17:25**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.038	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	176	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	176	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	280	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	15	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.51	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.70	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/10/15	11/11/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/11/15	SM 5310 B

HSM 270 Peak	15-10-1995-34	10/23/15 17:45	Aqueous

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.
(313) - The reporting limit is elevated resulting from matrix interference.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	0.035	0.050	0.020	1.00	J	mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	190	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	190	5.00	0.848	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	310	1.00	0.870	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	16	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
pH (24)	7.55	0.01	0.01	1.00	BV,BU	pH units	N/A	10/27/15	SM 4500 H+ B
Total Kjeldahl Nitrogen (24)	0.28	0.50	0.28	1.00	J	mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	3.6	2.5	1.2	5.00		mg/L	11/10/15	11/11/15	SM 5310 B
Carbon, Dissolved Organic (24, 313)	ND	2.5	1.2	5.00		mg/L	11/05/15	11/11/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618
Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
Method Blank		**N/A**	**Aqueous**

Comment(s): (24) - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Results	RL	MDL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	11/10/15	EPA 365.1
Phosphorus, Total (24)	ND	0.050	0.020	1.00		mg/L	N/A	11/10/15	EPA 365.1
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/06/15	SM 2320B
Alkalinity, Total (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Bicarbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/06/15	SM 2320B
Bicarbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/06/15	SM 2320B
Carbonate (as CaCO3) (24)	ND	1.0	0.85	1.00		mg/L	N/A	11/05/15	SM 2320B
Solids, Total Dissolved (24)	ND	1.0	0.87	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Dissolved (24)	ND	1.0	0.87	1.00		mg/L	10/30/15	10/30/15	SM 2540 C
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
Solids, Total Suspended (24)	ND	1.0	0.83	1.00		mg/L	10/30/15	10/30/15	SM 2540 D
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Total Kjeldahl Nitrogen (24)	ND	0.50	0.28	1.00		mg/L	11/05/15	11/05/15	SM 4500 N Org B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/09/15	11/10/15	SM 5310 B
Carbon, Total Organic (24)	ND	0.50	0.24	1.00		mg/L	11/10/15	11/11/15	SM 5310 B
Carbon, Dissolved Organic (24)	ND	0.50	0.24	1.00		mg/L	11/05/15	11/10/15	SM 5310 B
Carbon, Dissolved Organic (24)	ND	0.50	0.24	1.00		mg/L	11/05/15	11/11/15	SM 5310 B

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 300.0

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-10-2300-2	**Sample**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 14:13**	**151031S01**
15-10-2300-2	**Matrix Spike**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 16:04**	**151031S01**
15-10-2300-2	**Matrix Spike Duplicate**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 16:24**	**151031S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Fluoride	0.1851	2.500	2.506	93	2.415	89	80-120	4	0-20	
Chloride	84.26	50.00	142.4	116	139.8	111	80-120	2	0-20	
Bromide	0.2843	5.000	5.444	103	5.216	99	80-120	4	0-20	
Nitrate (as N)	ND	5.000	5.080	102	4.833	97	80-120	5	0-20	
Sulfate	153.4	50.00	232.8	159	229.6	152	80-120	1	0-20	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 300.0

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 210 Lead	**Sample**	**Aqueous**	**IC 15**	**N/A**	**11/01/15 03:50**	**151031S02**
HSM 210 Lead	**Matrix Spike**	**Aqueous**	**IC 15**	**N/A**	**11/01/15 04:08**	**151031S02**
HSM 210 Lead	**Matrix Spike Duplicate**	**Aqueous**	**IC 15**	**N/A**	**11/01/15 04:26**	**151031S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Fluoride	0.2071	2.500	2.526	93	2.512	92	80-120	1	0-20	
Chloride	27.20	50.00	82.19	110	82.11	110	80-120	0	0-20	
Bromide	0.1739	5.000	5.249	102	5.247	101	80-120	0	0-20	
Nitrate (as N)	0.6244	5.000	5.715	102	5.718	102	80-120	0	0-20	
Sulfate	33.40	50.00	89.37	112	89.25	112	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 210 Trail	**Sample**	**Aqueous**	**ACA 1**	**N/A**	**11/10/15 16:37**	**151110S01**
HSM 210 Trail	**Matrix Spike**	**Aqueous**	**ACA 1**	**N/A**	**11/10/15 16:37**	**151110S01**
HSM 210 Trail	**Matrix Spike Duplicate**	**Aqueous**	**ACA 1**	**N/A**	**11/10/15 16:37**	**151110S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	ND	0.2000	0.1771	89	0.1776	89	90-110	0	0-25	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 270 Peak	**Sample**	**Aqueous**	**ACA 1**	**N/A**	**11/10/15 16:37**	**151110S02**
HSM 270 Peak	**Matrix Spike**	**Aqueous**	**ACA 1**	**N/A**	**11/10/15 16:37**	**151110S02**
HSM 270 Peak	**Matrix Spike Duplicate**	**Aqueous**	**ACA 1**	**N/A**	**11/10/15 16:37**	**151110S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	ND	0.2000	0.2390	119	0.2396	120	90-110	0	0-25	3

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
FDHSM 231 Trail	**Sample**	**Aqueous**	**TOC 8**	**11/10/15**	**11/11/15 12:55**	**F1110TOCS2**
FDHSM 231 Trail	**Matrix Spike**	**Aqueous**	**TOC 8**	**11/10/15**	**11/11/15 12:55**	**F1110TOCS2**
FDHSM 231 Trail	**Matrix Spike Duplicate**	**Aqueous**	**TOC 8**	**11/10/15**	**11/11/15 12:55**	**F1110TOCS2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	7.350	50.00	55.00	95	59.00	103	31-145	7	0-23	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	10/27/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1995
San Antonio, TX 78249-1618	Preparation:	N/A
	Method:	SM 5310 B
Project: EAA 27122		Page 6 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 260 Peak	**Sample**	**Aqueous**	**TOC 11**	**11/09/15**	**11/10/15 09:15**	**F1109TOCS2**
HCS 260 Peak	**Matrix Spike**	**Aqueous**	**TOC 11**	**11/09/15**	**11/10/15 09:15**	**F1109TOCS2**
HCS 260 Peak	**Matrix Spike Duplicate**	**Aqueous**	**TOC 11**	**11/09/15**	**11/10/15 09:15**	**F1109TOCS2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	ND	10.00	2.130	21	3.210	32	31-145	40	0-23	3,4

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 260 Peak	**Sample**	**Aqueous**	**TOC 11**	**11/05/15**	**11/10/15 23:32**	**F1110DOCS1**
HCS 260 Peak	**Matrix Spike**	**Aqueous**	**TOC 11**	**11/05/15**	**11/10/15 23:32**	**F1110DOCS1**
HCS 260 Peak	**Matrix Spike Duplicate**	**Aqueous**	**TOC 11**	**11/05/15**	**11/10/15 23:32**	**F1110DOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	ND	50.00	41.80	84	43.05	86	31-145	3	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
FDHSM 231 Trail	**Sample**	**Aqueous**	**TOC 11**	**11/05/15**	**11/11/15 09:56**	**F1110DOCS2**
FDHSM 231 Trail	**Matrix Spike**	**Aqueous**	**TOC 11**	**11/05/15**	**11/11/15 09:56**	**F1110DOCS2**
FDHSM 231 Trail	**Matrix Spike Duplicate**	**Aqueous**	**TOC 11**	**11/05/15**	**11/11/15 09:56**	**F1110DOCS2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	ND	50.00	47.90	96	46.70	93	31-145	3	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	10/27/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1995
San Antonio, TX 78249-1618	Preparation:	EPA 3005A Filt.
	Method:	EPA 6010B
Project: EAA 27122		Page 9 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 260 Peak	**Sample**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:11**	**151028SA8**
HCS 260 Peak	**Matrix Spike**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:13**	**151028SA8**
HCS 260 Peak	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:15**	**151028SA8**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Calcium	66.37	0.5000	71.03	4X	69.31	4X	77-113	4X	0-11	Q
Magnesium	13.90	0.5000	15.64	4X	14.69	4X	56-140	4X	0-11	Q
Potassium	1.819	5.000	6.498	94	6.482	93	83-131	0	0-7	
Sodium	10.82	5.000	16.16	107	15.96	103	73-127	1	0-9	
Strontium	0.5503	0.5000	1.065	103	1.051	100	81-123	1	0-6	
Silicon	4.922	0.5000	5.851	4X	5.514	4X	24-180	4X	0-15	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants	Date Received:	10/27/15
6200 UTSA Blvd., Suite 102	Work Order:	15-10-1995
San Antonio, TX 78249-1618	Preparation:	EPA 3005A Filt.
	Method:	EPA 6010B
Project: EAA 27122		Page 10 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 230 Lead	**Sample**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 12:30**	**151028SA9**
HSM 230 Lead	**Matrix Spike**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 12:33**	**151028SA9**
HSM 230 Lead	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 12:35**	**151028SA9**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Calcium	44.03	0.5000	44.59	4X	42.77	4X	77-113	4X	0-11	Q
Magnesium	7.440	0.5000	7.888	4X	7.617	4X	56-140	4X	0-11	Q
Potassium	4.132	5.000	9.456	106	9.409	106	83-131	1	0-7	
Sodium	7.862	5.000	13.38	110	13.18	106	73-127	2	0-9	
Strontium	0.2264	0.5000	0.7637	107	0.7338	101	81-123	4	0-6	
Silicon	2.714	0.5000	3.248	4X	3.178	4X	24-180	4X	0-15	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 270 Peak	**Sample**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 21:39**	**151028SA4**
HCS 270 Peak	**Matrix Spike**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 21:22**	**151028SA4**
HCS 270 Peak	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 21:25**	**151028SA4**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.1000	0.09641	96	0.09743	97	85-133	1	0-11	
Arsenic	ND	0.1000	0.09269	93	0.09385	94	73-127	1	0-11	
Barium	0.05104	0.1000	0.1604	109	0.1623	111	74-128	1	0-10	
Beryllium	ND	0.1000	0.1010	101	0.09967	100	56-122	1	0-11	
Cadmium	ND	0.1000	0.09287	93	0.09426	94	84-114	1	0-8	
Chromium	ND	0.1000	0.1090	109	0.1102	110	73-133	1	0-11	
Copper	ND	0.1000	0.1006	101	0.09996	100	72-108	1	0-10	
Lead	ND	0.1000	0.1086	109	0.1075	108	79-121	1	0-10	
Nickel	0.001523	0.1000	0.1011	100	0.09944	98	68-122	2	0-10	
Selenium	ND	0.1000	0.08024	80	0.07796	78	59-125	3	0-12	
Silver	ND	0.05000	0.05385	108	0.05348	107	68-128	1	0-14	
Thallium	ND	0.1000	0.1074	107	0.1064	106	73-121	1	0-11	
Zinc	0.07542	0.1000	0.09585	20	0.09292	18	43-145	3	0-39	3
Aluminum	ND	0.1000	0.1259	126	0.1218	122	47-161	3	0-24	
Iron	0.05482	5.100	5.803	113	5.744	112	27-201	1	0-24	
Manganese	0.003253	0.1000	0.1062	103	0.1067	103	72-126	0	0-42	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 231 Lead	**Sample**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 22:11**	**151028SA5**
HSM 231 Lead	**Matrix Spike**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 21:43**	**151028SA5**
HSM 231 Lead	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 21:57**	**151028SA5**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.1000	0.1037	104	0.09573	96	85-133	8	0-11	
Arsenic	ND	0.1000	0.09556	96	0.09159	92	73-127	4	0-11	
Barium	0.03620	0.1000	0.1541	118	0.1432	107	74-128	7	0-10	
Beryllium	ND	0.1000	0.1033	103	0.09545	95	56-122	8	0-11	
Cadmium	ND	0.1000	0.09864	99	0.09155	92	84-114	7	0-8	
Chromium	ND	0.1000	0.1149	115	0.1050	105	73-133	9	0-11	
Copper	ND	0.1000	0.1028	103	0.09710	97	72-108	6	0-10	
Lead	ND	0.1000	0.1124	112	0.1055	105	79-121	6	0-10	
Nickel	0.001766	0.1000	0.1034	102	0.09686	95	68-122	7	0-10	
Selenium	ND	0.1000	0.08353	84	0.07190	72	59-125	15	0-12	4
Silver	ND	0.05000	0.05602	112	0.05324	106	68-128	5	0-14	
Thallium	ND	0.1000	0.1099	110	0.1040	104	73-121	6	0-11	
Zinc	0.02899	0.1000	0.1064	77	0.09627	67	43-145	10	0-39	
Aluminum	ND	0.1000	0.1217	122	0.1172	117	47-161	4	0-24	
Iron	0.05717	5.100	6.018	117	5.666	110	27-201	6	0-24	
Manganese	0.004124	0.1000	0.1125	108	0.1046	101	72-126	7	0-42	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 7470A Filt.
Method: EPA 7470A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 210 Trail	**Sample**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 20:18**	**151105SA3**
HCS 210 Trail	**Matrix Spike**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 20:21**	**151105SA3**
HCS 210 Trail	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 20:23**	**151105SA3**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.01017	102	0.01024	102	55-133	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 7470A Filt.
Method: EPA 7470A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 240 Lead	**Sample**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:21**	**151105SA4**
HSM 240 Lead	**Matrix Spike**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:28**	**151105SA4**
HSM 240 Lead	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:30**	**151105SA4**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.01000	100	0.01010	101	55-133	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HCS 260 Peak	**Sample**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 13:50**	**151030S001**
HCS 260 Peak	**Matrix Spike**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 14:18**	**151030S001**
HCS 260 Peak	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 14:46**	**151030S001**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	53.60	107	56.41	113	74-122	5	0-21	
Carbon Tetrachloride	ND	50.00	58.43	117	61.88	124	60-144	6	0-21	
Chlorobenzene	ND	50.00	51.13	102	54.37	109	73-120	6	0-22	
1,2-Dibromoethane	ND	50.00	42.67	85	45.23	90	80-122	6	0-20	
1,2-Dichlorobenzene	ND	50.00	47.56	95	51.07	102	70-120	7	0-26	
1,2-Dichloroethane	ND	50.00	45.51	91	46.13	92	64-142	1	0-20	
1,1-Dichloroethene	ND	50.00	55.28	111	60.09	120	52-136	8	0-21	
Ethylbenzene	ND	50.00	56.19	112	60.86	122	77-125	8	0-24	
Toluene	ND	50.00	53.54	107	56.90	114	72-126	6	0-23	
Trichloroethene	ND	50.00	54.14	108	57.22	114	74-128	6	0-22	
Vinyl Chloride	ND	50.00	44.95	90	50.05	100	67-133	11	0-20	
p/m-Xylene	ND	100.0	118.9	119	128.5	128	63-129	8	0-25	
o-Xylene	ND	50.00	57.31	115	61.88	124	62-128	8	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	42.03	84	43.92	88	68-134	4	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 270 Trail	**Sample**	**Aqueous**	**GC/MS JJ**	**10/30/15**	**10/30/15 12:17**	**151030S008**
HSM 270 Trail	**Matrix Spike**	**Aqueous**	**GC/MS JJ**	**10/30/15**	**10/30/15 10:01**	**151030S008**
HSM 270 Trail	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS JJ**	**10/30/15**	**10/30/15 10:28**	**151030S008**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	51.24	102	48.56	97	74-122	5	0-21	
Carbon Tetrachloride	ND	50.00	53.78	108	50.71	101	60-144	6	0-21	
Chlorobenzene	ND	50.00	54.76	110	51.42	103	73-120	6	0-22	
1,2-Dibromoethane	ND	50.00	50.66	101	47.77	96	80-122	6	0-20	
1,2-Dichlorobenzene	ND	50.00	55.07	110	52.49	105	70-120	5	0-26	
1,2-Dichloroethane	ND	50.00	48.38	97	45.58	91	64-142	6	0-20	
1,1-Dichloroethene	ND	50.00	55.20	110	53.18	106	52-136	4	0-21	
Ethylbenzene	ND	50.00	57.34	115	53.66	107	77-125	7	0-24	
Toluene	ND	50.00	51.89	104	49.10	98	72-126	6	0-23	
Trichloroethene	ND	50.00	52.86	106	50.48	101	74-128	5	0-22	
Vinyl Chloride	ND	50.00	51.14	102	47.42	95	67-133	8	0-20	
p/m-Xylene	ND	100.0	116.4	116	108.8	109	63-129	7	0-25	
o-Xylene	ND	50.00	56.12	112	52.77	106	62-128	6	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	43.07	86	41.12	82	68-134	5	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

SWCA Environmental Consultants
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San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
HSM 231 Lead	**Sample**	**Aqueous**	**GC/MS QQ**	**10/30/15**	**10/30/15 13:39**	**151030S009**
HSM 231 Lead	**Matrix Spike**	**Aqueous**	**GC/MS QQ**	**10/30/15**	**10/30/15 14:06**	**151030S009**
HSM 231 Lead	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS QQ**	**10/30/15**	**10/30/15 14:32**	**151030S009**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	46.39	93	46.36	93	74-122	0	0-21	
Carbon Tetrachloride	ND	50.00	55.77	112	56.04	112	60-144	0	0-21	
Chlorobenzene	ND	50.00	46.55	93	46.25	93	73-120	1	0-22	
1,2-Dibromoethane	ND	50.00	52.05	104	51.51	103	80-122	1	0-20	
1,2-Dichlorobenzene	ND	50.00	49.74	99	49.53	99	70-120	0	0-26	
1,2-Dichloroethane	ND	50.00	47.11	94	47.53	95	64-142	1	0-20	
1,1-Dichloroethene	ND	50.00	32.74	65	32.76	66	52-136	0	0-21	
Ethylbenzene	ND	50.00	45.70	91	44.80	90	77-125	2	0-24	
Toluene	ND	50.00	45.99	92	45.93	92	72-126	0	0-23	
Trichloroethene	ND	50.00	45.34	91	45.06	90	74-128	1	0-22	
Vinyl Chloride	ND	50.00	29.82	60	29.42	59	67-133	1	0-20	3
p/m-Xylene	ND	100.0	86.13	86	85.41	85	63-129	1	0-25	
o-Xylene	ND	50.00	43.86	88	43.46	87	62-128	1	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	49.43	99	50.03	100	68-134	1	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
HCS 270 Peak	**Sample**	**Aqueous**	**ICP/MS 03**	**10/28/15 00:00**	**10/30/15 21:39**	**151028SA4**
HCS 270 Peak	**PDS**	**Aqueous**	**ICP/MS 03**	**10/28/15 00:00**	**10/30/15 21:29**	**151028SA4**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Antimony	ND	0.1000	0.09399	94	75-125	
Arsenic	ND	0.1000	0.08828	88	75-125	
Barium	0.05104	0.1000	0.1462	95	75-125	
Beryllium	ND	0.1000	0.09487	95	75-125	
Cadmium	ND	0.1000	0.08708	87	75-125	
Chromium	ND	0.1000	0.1012	101	75-125	
Copper	ND	0.1000	0.09431	94	75-125	
Lead	ND	0.1000	0.1004	100	75-125	
Nickel	0.001523	0.1000	0.09544	94	75-125	
Selenium	ND	0.1000	0.07303	73	75-125	5
Silver	ND	0.05000	0.04148	83	75-125	
Thallium	ND	0.1000	0.09872	99	75-125	
Zinc	0.07542	0.1000	0.1660	91	75-125	
Aluminum	ND	0.1000	0.1086	109	75-125	
Iron	0.05482	5.100	5.246	102	75-125	
Manganese	0.003253	0.1000	0.1021	99	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

SWCA Environmental Consultants
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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3005A Filt.
Method: EPA 6020

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
HSM 231 Lead	**Sample**	**Aqueous**	**ICP/MS 03**	**10/28/15 00:00**	**10/30/15 22:11**	**151028SA5**
HSM 231 Lead	**PDS**	**Aqueous**	**ICP/MS 03**	**10/28/15 00:00**	**10/30/15 22:00**	**151028SA5**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Antimony	ND	0.1000	0.09520	95	75-125	
Arsenic	ND	0.1000	0.08681	87	75-125	
Barium	0.03620	0.1000	0.1335	97	75-125	
Beryllium	ND	0.1000	0.09342	93	75-125	
Cadmium	ND	0.1000	0.08872	89	75-125	
Chromium	ND	0.1000	0.1003	100	75-125	
Copper	ND	0.1000	0.09336	93	75-125	
Lead	ND	0.1000	0.1015	101	75-125	
Nickel	0.001766	0.1000	0.09390	92	75-125	
Selenium	ND	0.1000	0.07272	73	75-125	5
Silver	ND	0.05000	0.04229	85	75-125	
Thallium	ND	0.1000	0.09942	99	75-125	
Zinc	0.02899	0.1000	0.1097	81	75-125	
Aluminum	ND	0.1000	0.1051	105	75-125	
Iron	0.05717	5.100	5.245	102	75-125	
Manganese	0.004124	0.1000	0.1029	99	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HCS 260 Peak	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 14:45**	**F1105ALKD2**
HCS 260 Peak	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 14:45**	**F1105ALKD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	203.0	202.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-11-0235-1	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 16:55**	**F1105ALKD3**
15-11-0235-1	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 16:55**	**F1105ALKD3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	203.0	204.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
FDHSM 231 Trail	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/06/15 19:35**	**F1106ALKD2**
FDHSM 231 Trail	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/06/15 19:35**	**F1106ALKD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	245.0	245.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HCS 260 Peak	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 14:45**	**F1105HCOD2**
HCS 260 Peak	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 14:45**	**F1105HCOD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Bicarbonate (as CaCO3)	203.0	202.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-11-0235-1	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 16:55**	**F1105HCOD3**
15-11-0235-1	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 16:55**	**F1105HCOD3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Bicarbonate (as CaCO3)	203.0	204.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
FDHSM 231 Trail	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/06/15 19:35**	**F1106HCOD2**
FDHSM 231 Trail	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/06/15 19:35**	**F1106HCOD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Bicarbonate (as CaCO3)	245.0	245.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HCS 260 Peak	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 14:45**	**F1105CO3D2**
HCS 260 Peak	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 14:45**	**F1105CO3D2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Carbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-11-0235-1	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 16:55**	**F1105CO3D3**
15-11-0235-1	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 16:55**	**F1105CO3D3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Carbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
FDHSM 231 Trail	**Sample**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/06/15 19:35**	**F1106CO3D2**
FDHSM 231 Trail	**Sample Duplicate**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/06/15 19:35**	**F1106CO3D2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Carbonate (as CaCO3)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM 210 Trail	**Sample**	**Aqueous**	**N/A**	**10/30/15 00:00**	**10/30/15 16:00**	**F1030TDSD3**
HSM 210 Trail	**Sample Duplicate**	**Aqueous**	**N/A**	**10/30/15 00:00**	**10/30/15 16:00**	**F1030TDSD3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	345.0	360.0	4	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM 230 Lead	**Sample**	**Aqueous**	**N/A**	**10/30/15 00:00**	**10/30/15 17:00**	**F1030TDSD5**
HSM 230 Lead	**Sample Duplicate**	**Aqueous**	**N/A**	**10/30/15 00:00**	**10/30/15 17:00**	**F1030TDSD5**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	215.0	210.0	2	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HCS 260 Peak	**Sample**	**Aqueous**	**N/A**	**10/30/15 00:00**	**10/30/15 15:00**	**F1030TSSD5**
HCS 260 Peak	**Sample Duplicate**	**Aqueous**	**N/A**	**10/30/15 00:00**	**10/30/15 15:00**	**F1030TSSD5**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Suspended	8.700	9.100	4	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

SWCA Environmental Consultants
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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-10-2139-2	**Sample**	**Aqueous**	**N/A**	**10/30/15 00:00**	**10/30/15 17:00**	**F1030TSSD6**
15-10-2139-2	**Sample Duplicate**	**Aqueous**	**N/A**	**10/30/15 00:00**	**10/30/15 17:00**	**F1030TSSD6**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Suspended	740.0	720.0	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 4500 H+ B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-10-2000-5	**Sample**	**Aqueous**	**PH 1**	**N/A**	**10/27/15 20:04**	**F1027PHD2**
15-10-2000-5	**Sample Duplicate**	**Aqueous**	**PH 1**	**N/A**	**10/27/15 20:04**	**F1027PHD2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	8.080	8.050	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 4500 H+ B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
FDHSM 230 Trail	**Sample**	**Aqueous**	**PH 1**	**N/A**	**10/27/15 20:25**	**F1027PHD3**
FDHSM 230 Trail	**Sample Duplicate**	**Aqueous**	**PH 1**	**N/A**	**10/27/15 20:25**	**F1027PHD3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
pH	7.100	7.110	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 4500 N Org B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM 230 Trail	**Sample**	**Aqueous**	**BUR05**	**11/05/15 00:00**	**11/05/15 16:05**	**F1105TKND1**
HSM 230 Trail	**Sample Duplicate**	**Aqueous**	**BUR05**	**11/05/15 00:00**	**11/05/15 16:05**	**F1105TKND1**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Total Kjeldahl Nitrogen	0.8400	0.7700	9	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

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Project: EAA 27122

Date Received: 10/27/15
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Preparation: N/A
Method: SM 4500 N Org B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
HSM 240 Lead	**Sample**	**Aqueous**	**BUR05**	**11/05/15 00:00**	**11/05/15 17:45**	**F1105TKND2**
HSM 240 Lead	**Sample Duplicate**	**Aqueous**	**BUR05**	**11/05/15 00:00**	**11/05/15 17:45**	**F1105TKND2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Total Kjeldahl Nitrogen	0.7700	0.7000	10	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 300.0

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-6212	**LCS**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 12:22**	**151031L01**
099-12-906-6212	**LCSD**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 12:40**	**151031L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Fluoride	2.500	2.552	102	2.557	102	90-110	0	0-15	
Chloride	50.00	50.97	102	50.92	102	90-110	0	0-15	
Bromide	5.000	5.118	102	5.125	103	90-110	0	0-15	
Nitrate (as N)	5.000	5.075	102	5.071	101	90-110	0	0-15	
Sulfate	50.00	50.51	101	50.45	101	90-110	0	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	N/A
		Method:	EPA 300.0
Project: EAA 27122			Page 2 of 34

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-906-6215	**LCS**	**Aqueous**	**IC 15**	**N/A**	**10/31/15 22:02**	**151031L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Fluoride	2.500	2.341	94	90-110	
Chloride	50.00	47.53	95	90-110	
Bromide	5.000	4.818	96	90-110	
Nitrate (as N)	5.000	4.744	95	90-110	
Sulfate	50.00	47.20	94	90-110	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-739-134	**LCS**	**Aqueous**	**ACA 1**	**N/A**	**11/10/15 16:37**	**151110L01**
099-12-739-134	**LCSD**	**Aqueous**	**ACA 1**	**N/A**	**11/10/15 16:37**	**151110L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.2000	0.1937	97	0.1984	99	90-110	2	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

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Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: EPA 365.1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-739-135	**LCS**	**Aqueous**	**ACA 1**	**N/A**	**11/10/15 16:37**	**151110L02**
099-12-739-135	**LCSD**	**Aqueous**	**ACA 1**	**N/A**	**11/10/15 16:37**	**151110L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.2000	0.1929	96	0.1949	97	90-110	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-859-851	**LCS**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 14:45**	**F1105ALKB2**
099-15-859-851	**LCSD**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 14:45**	**F1105ALKB2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	100.0	100.0	100	100.0	100	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-859-853	**LCS**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 16:55**	**F1105ALKB3**
099-15-859-853	**LCSD**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/05/15 16:55**	**F1105ALKB3**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	100.0	100.0	100	100.0	100	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2320B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-859-852	**LCS**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/06/15 19:35**	**F1106ALKB2**
099-15-859-852	**LCSD**	**Aqueous**	**PH1/BUR03**	**N/A**	**11/06/15 19:35**	**F1106ALKB2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	100.0	99.00	99	99.00	99	80-120	0	0-20	

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-180-4822	**LCS**	**Aqueous**	**N/A**	**10/30/15**	**10/30/15 16:00**	**F1030TDSL3**
099-12-180-4822	**LCSD**	**Aqueous**	**N/A**	**10/30/15**	**10/30/15 16:00**	**F1030TDSL3**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100.0	80.00	80	85.00	85	80-120	6	0-20	

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Quality Control - LCS/LCSD

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Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 2540 C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-180-4823	**LCS**	**Aqueous**	**N/A**	**10/30/15**	**10/30/15 17:00**	**F1030TDSL5**
099-12-180-4823	**LCSD**	**Aqueous**	**N/A**	**10/30/15**	**10/30/15 17:00**	**F1030TDSL5**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100.0	110.0	110	105.0	105	80-120	5	0-20	

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Quality Control - LCS/LCSD

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Date Received: 10/27/15
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Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-010-7388	**LCS**	**Aqueous**	**N/A**	**10/30/15**	**10/30/15 15:00**	**F1030TSSL5**
099-09-010-7388	**LCSD**	**Aqueous**	**N/A**	**10/30/15**	**10/30/15 15:00**	**F1030TSSL5**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Suspended	100.0	105.0	105	109.0	109	80-120	4	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

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Preparation: N/A
Method: SM 2540 D

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-010-7387	**LCS**	**Aqueous**	**N/A**	**10/30/15**	**10/30/15 17:00**	**F1030TSSL6**
099-09-010-7387	**LCSD**	**Aqueous**	**N/A**	**10/30/15**	**10/30/15 17:00**	**F1030TSSL6**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Suspended	100.0	106.0	106	105.0	105	80-120	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-5779	**LCS**	**Aqueous**	**TOC 8**	**11/10/15**	**11/11/15 12:55**	**F1110TOCL2**
099-05-097-5779	**LCSD**	**Aqueous**	**TOC 8**	**11/10/15**	**11/11/15 12:55**	**F1110TOCL2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	10.00	10.80	108	11.10	111	80-120	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-5778	**LCS**	**Aqueous**	**TOC 11**	**11/09/15**	**11/10/15 09:15**	**F1109TOCL2**
099-05-097-5778	**LCSD**	**Aqueous**	**TOC 11**	**11/09/15**	**11/10/15 09:15**	**F1109TOCL2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	10.00	9.490	95	9.230	92	80-120	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-115-1467	**LCS**	**Aqueous**	**TOC 11**	**11/05/15**	**11/10/15 23:32**	**F1110DOCL1**
099-05-115-1467	**LCSD**	**Aqueous**	**TOC 11**	**11/05/15**	**11/10/15 23:32**	**F1110DOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	10.00	9.720	97	9.740	97	80-120	0	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: N/A
Method: SM 5310 B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-115-1468	**LCS**	**Aqueous**	**TOC 11**	**11/05/15**	**11/11/15 09:56**	**F1110DOCL2**
099-05-115-1468	**LCSD**	**Aqueous**	**TOC 11**	**11/05/15**	**11/11/15 09:56**	**F1110DOCL2**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Dissolved Organic	10.00	10.40	104	10.20	102	80-120	2	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B
Project: EAA 27122			Page 16 of 34

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-683-1458	**LCS**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 19:04**	**151028LA8F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Calcium	0.5000	0.5160	103	80-120	
Magnesium	0.5000	0.5054	101	80-120	
Potassium	5.000	4.722	94	80-120	
Sodium	5.000	4.855	97	80-120	
Strontium	0.5000	0.4955	99	80-120	
Silicon	0.5000	0.4764	95	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B
Project: EAA 27122			Page 17 of 34

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-683-1442	**LCS**	**Aqueous**	**ICP 7300**	**10/28/15**	**10/30/15 12:22**	**151028LA9F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Calcium	0.5000	0.4977	100	80-120	
Magnesium	0.5000	0.5121	102	80-120	
Potassium	5.000	5.251	105	80-120	
Sodium	5.000	5.479	110	80-120	
Strontium	0.5000	0.5265	105	80-120	
Silicon	0.5000	0.5240	105	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: EAA 27122			Page 18 of 34

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-693-963	**LCS**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 21:15**	**151028LA4F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.1000	0.09884	99	80-120	73-127	
Arsenic	0.1000	0.09837	98	80-120	73-127	
Barium	0.1000	0.09643	96	80-120	73-127	
Beryllium	0.1000	0.1005	101	80-120	73-127	
Cadmium	0.1000	0.09867	99	80-120	73-127	
Chromium	0.1000	0.09479	95	80-120	73-127	
Copper	0.1000	0.1012	101	80-120	73-127	
Lead	0.1000	0.09665	97	80-120	73-127	
Nickel	0.1000	0.09814	98	80-120	73-127	
Selenium	0.1000	0.08975	90	80-120	73-127	
Silver	0.05000	0.04447	89	80-120	73-127	
Thallium	0.1000	0.09317	93	80-120	73-127	
Zinc	0.1000	0.09933	99	80-120	73-127	
Aluminum	0.1000	0.09923	99	80-120	73-127	
Iron	5.100	5.206	102	80-120	73-127	
Manganese	0.1000	0.1009	101	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: EAA 27122			Page 19 of 34

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-693-964	**LCS**	**Aqueous**	**ICP/MS 03**	**10/28/15**	**10/30/15 21:18**	**151028LA5F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.1000	0.09827	98	80-120	73-127	
Arsenic	0.1000	0.09624	96	80-120	73-127	
Barium	0.1000	0.09508	95	80-120	73-127	
Beryllium	0.1000	0.1005	101	80-120	73-127	
Cadmium	0.1000	0.09656	97	80-120	73-127	
Chromium	0.1000	0.09415	94	80-120	73-127	
Copper	0.1000	0.09892	99	80-120	73-127	
Lead	0.1000	0.09651	97	80-120	73-127	
Nickel	0.1000	0.09432	94	80-120	73-127	
Selenium	0.1000	0.08904	89	80-120	73-127	
Silver	0.05000	0.04447	89	80-120	73-127	
Thallium	0.1000	0.09366	94	80-120	73-127	
Zinc	0.1000	0.09761	98	80-120	73-127	
Aluminum	0.1000	0.09823	98	80-120	73-127	
Iron	5.100	5.085	100	80-120	73-127	
Manganese	0.1000	0.09653	97	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A
Project: EAA 27122			Page 20 of 34

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-763-654	**LCS**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:19**	**151105LA3F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.009980	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A
Project: EAA 27122			Page 21 of 34

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-763-655	**LCS**	**Aqueous**	**Mercury 04**	**11/05/15**	**11/05/15 21:19**	**151105LA4F**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.009980	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-851	**LCS**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 13:29**	**151029L12**
099-12-529-851	**LCSD**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 13:43**	**151029L12**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.5212	104	0.5246	105	50-135	36-149	1	0-25	
Gamma-BHC	0.5000	0.5451	109	0.5510	110	50-135	36-149	1	0-25	
Beta-BHC	0.5000	0.5091	102	0.5149	103	50-135	36-149	1	0-25	
Heptachlor	0.5000	0.4684	94	0.4774	95	50-135	36-149	2	0-25	
Delta-BHC	0.5000	0.5177	104	0.5188	104	50-135	36-149	0	0-25	
Aldrin	0.5000	0.4176	84	0.4293	86	50-135	36-149	3	0-25	
Heptachlor Epoxide	0.5000	0.4869	97	0.4884	98	50-135	36-149	0	0-25	
Endosulfan I	0.5000	0.4903	98	0.4896	98	50-135	36-149	0	0-25	
Dieldrin	0.5000	0.5074	101	0.5082	102	50-135	36-149	0	0-25	
4,4'-DDE	0.5000	0.4968	99	0.5034	101	50-135	36-149	1	0-25	
Endrin	0.5000	0.6128	123	0.6133	123	50-135	36-149	0	0-25	
Endrin Aldehyde	0.5000	0.4507	90	0.4471	89	50-135	36-149	1	0-25	
4,4'-DDD	0.5000	0.5030	101	0.5058	101	50-135	36-149	1	0-25	
Endosulfan II	0.5000	0.4986	100	0.5004	100	50-135	36-149	0	0-25	
4,4'-DDT	0.5000	0.5245	105	0.5191	104	50-135	36-149	1	0-25	
Endosulfan Sulfate	0.5000	0.5056	101	0.5078	102	50-135	36-149	0	0-25	
Methoxychlor	0.5000	0.5595	112	0.5592	112	50-135	36-149	0	0-25	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8081A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-852	**LCS**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 14:12**	**151029L13**
099-12-529-852	**LCSD**	**Aqueous**	**GC 44**	**10/29/15**	**10/30/15 14:26**	**151029L13**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.5198	104	0.5532	111	50-135	36-149	6	0-25	
Gamma-BHC	0.5000	0.5467	109	0.5851	117	50-135	36-149	7	0-25	
Beta-BHC	0.5000	0.5146	103	0.5382	108	50-135	36-149	4	0-25	
Heptachlor	0.5000	0.4826	97	0.4994	100	50-135	36-149	3	0-25	
Delta-BHC	0.5000	0.5174	103	0.5375	108	50-135	36-149	4	0-25	
Aldrin	0.5000	0.4432	89	0.4496	90	50-135	36-149	1	0-25	
Heptachlor Epoxide	0.5000	0.4976	100	0.5185	104	50-135	36-149	4	0-25	
Endosulfan I	0.5000	0.4965	99	0.5141	103	50-135	36-149	3	0-25	
Dieldrin	0.5000	0.5167	103	0.5388	108	50-135	36-149	4	0-25	
4,4'-DDE	0.5000	0.5024	100	0.5248	105	50-135	36-149	4	0-25	
Endrin	0.5000	0.6139	123	0.6447	129	50-135	36-149	5	0-25	
Endrin Aldehyde	0.5000	0.4493	90	0.4706	94	50-135	36-149	5	0-25	
4,4'-DDD	0.5000	0.5181	104	0.5421	108	50-135	36-149	5	0-25	
Endosulfan II	0.5000	0.5086	102	0.5294	106	50-135	36-149	4	0-25	
4,4'-DDT	0.5000	0.5246	105	0.5577	112	50-135	36-149	6	0-25	
Endosulfan Sulfate	0.5000	0.5099	102	0.5352	107	50-135	36-149	5	0-25	
Methoxychlor	0.5000	0.5712	114	0.6055	121	50-135	36-149	6	0-25	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1101	**LCS**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 13:15**	**151029L14**
099-12-533-1101	**LCSD**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 13:34**	**151029L14**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	2.061	103	2.013	101	50-135	2	0-25	
Aroclor-1260	2.000	2.122	106	2.189	109	50-135	3	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8082

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1102	**LCS**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 14:12**	**151029L15**
099-12-533-1102	**LCSD**	**Aqueous**	**GC 31**	**10/29/15**	**10/30/15 14:31**	**151029L15**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	1.929	96	1.944	97	50-135	1	0-25	
Aroclor-1260	2.000	2.164	108	2.242	112	50-135	4	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-963-121	**LCS**	**Aqueous**	**GC 26**	**10/30/15**	**10/30/15 20:33**	**151030L02**
099-15-963-121	**LCSD**	**Aqueous**	**GC 26**	**10/30/15**	**10/30/15 21:17**	**151030L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	0.04000	0.03548	89	0.03624	91	30-130	13-147	2	0-30	
Bolstar	0.04000	0.03344	84	0.03400	85	30-130	13-147	2	0-30	
Chlorpyrifos	0.04000	0.03030	76	0.03132	78	30-130	13-147	3	0-30	
Coumaphos	0.04000	0.03136	78	0.03214	80	30-130	13-147	2	0-30	
Diazinon	0.04000	0.03438	86	0.03575	89	30-130	13-147	4	0-30	
Disulfoton	0.04000	0.03376	84	0.03389	85	30-130	13-147	0	0-30	
Ethoprop	0.04000	0.03390	85	0.03478	87	30-130	13-147	3	0-30	
Fensulfothion	0.04000	0.03540	88	0.03612	90	30-130	13-147	2	0-30	
Fenthion	0.04000	0.03360	84	0.03411	85	30-130	13-147	2	0-30	
Merphos	0.04000	0.02985	75	0.03243	81	30-130	13-147	8	0-30	
Methyl Parathion	0.04000	0.03211	80	0.03305	83	30-130	13-147	3	0-30	
Phorate	0.04000	0.03878	97	0.03981	100	30-130	13-147	3	0-30	
Ronnel	0.04000	0.02918	73	0.02994	75	30-130	13-147	3	0-30	
Stirophos	0.04000	0.02682	67	0.02749	69	30-130	13-147	2	0-30	
Tokuthion	0.04000	0.02941	74	0.02983	75	30-130	13-147	1	0-30	
Trichloronate	0.04000	0.03112	78	0.03193	80	30-130	13-147	3	0-30	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8141A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-963-122	**LCS**	**Aqueous**	**GC 26**	**10/30/15**	**10/30/15 22:46**	**151030L03**
099-15-963-122	**LCSD**	**Aqueous**	**GC 26**	**10/30/15**	**10/30/15 23:30**	**151030L03**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	0.04000	0.03277	82	0.03449	86	30-130	13-147	5	0-30	
Bolstar	0.04000	0.03204	80	0.03222	81	30-130	13-147	1	0-30	
Chlorpyrifos	0.04000	0.02940	74	0.02958	74	30-130	13-147	1	0-30	
Coumaphos	0.04000	0.02931	73	0.03056	76	30-130	13-147	4	0-30	
Diazinon	0.04000	0.03368	84	0.03319	83	30-130	13-147	1	0-30	
Disulfoton	0.04000	0.03242	81	0.03253	81	30-130	13-147	0	0-30	
Ethoprop	0.04000	0.03319	83	0.03292	82	30-130	13-147	1	0-30	
Fensulfothion	0.04000	0.03365	84	0.03430	86	30-130	13-147	2	0-30	
Fenthion	0.04000	0.03205	80	0.03209	80	30-130	13-147	0	0-30	
Merphos	0.04000	0.02884	72	0.03096	77	30-130	13-147	7	0-30	
Methyl Parathion	0.04000	0.03085	77	0.03100	78	30-130	13-147	0	0-30	
Phorate	0.04000	0.03792	95	0.03742	94	30-130	13-147	1	0-30	
Ronnel	0.04000	0.02813	70	0.02833	71	30-130	13-147	1	0-30	
Stirophos	0.04000	0.02617	65	0.02631	66	30-130	13-147	1	0-30	
Tokuthion	0.04000	0.02820	70	0.02826	71	30-130	13-147	0	0-30	
Trichloronate	0.04000	0.03008	75	0.03011	75	30-130	13-147	0	0-30	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-034-667	**LCS**	**Aqueous**	**GC 40**	**10/30/15**	**11/05/15 19:46**	**151030L19**
095-01-034-667	**LCSD**	**Aqueous**	**GC 40**	**10/30/15**	**11/05/15 20:09**	**151030L19**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	20.00	15.48	77	17.12	86	30-130	10	0-30	
2,4,5-T	2.000	2.010	100	2.115	106	30-130	5	0-30	
2,4-DB	20.00	17.02	85	18.42	92	30-130	8	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 8151A
Method: EPA 8151A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-034-668	**LCS**	**Aqueous**	**GC 40**	**10/30/15**	**11/05/15 20:55**	**151030L20**
095-01-034-668	**LCSD**	**Aqueous**	**GC 40**	**10/30/15**	**11/05/15 21:18**	**151030L20**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	20.00	15.80	79	17.11	86	30-130	8	0-30	
2,4,5-T	2.000	2.060	103	2.170	108	30-130	5	0-30	
2,4-DB	20.00	17.16	86	18.44	92	30-130	7	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Project: EAA 27122

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-4133	**LCS**	**Aqueous**	**GC/MS SS**	**10/30/15**	**10/31/15 15:40**	**151030L04**
095-01-003-4133	**LCSD**	**Aqueous**	**GC/MS SS**	**10/30/15**	**10/31/15 16:00**	**151030L04**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	200.0	153.2	77	152.6	76	61-120	51-130	0	0-20	
Acenaphthylene	200.0	150.4	75	149.8	75	55-120	44-131	0	0-20	
Butyl Benzyl Phthalate	200.0	169.4	85	166.7	83	56-122	45-133	2	0-20	
4-Chloro-3-Methylphenol	200.0	175.1	88	172.8	86	52-120	41-131	1	0-20	
2-Chlorophenol	200.0	168.7	84	164.8	82	47-120	35-132	2	0-20	
1,4-Dichlorobenzene	200.0	149.5	75	147.6	74	36-120	22-134	1	0-20	
Dimethyl Phthalate	200.0	153.6	77	152.5	76	60-120	50-130	1	0-20	
2,4-Dinitrotoluene	200.0	170.9	85	168.9	84	61-121	51-131	1	0-20	
Fluorene	200.0	152.9	76	154.2	77	67-120	58-129	1	0-20	
N-Nitroso-di-n-propylamine	200.0	160.8	80	154.3	77	39-123	25-137	4	0-20	
Naphthalene	200.0	142.2	71	142.3	71	54-120	43-131	0	0-20	
4-Nitrophenol	200.0	167.5	84	171.7	86	14-120	0-138	3	0-20	
Pentachlorophenol	200.0	151.2	76	144.8	72	31-127	15-143	4	0-20	
Phenol	200.0	164.8	82	159.9	80	17-120	0-137	3	0-20	
Pyrene	200.0	155.6	78	153.2	77	58-124	47-135	2	0-20	
1,2,4-Trichlorobenzene	200.0	149.4	75	147.1	74	49-120	37-132	2	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

SWCA Environmental Consultants
6200 UTSA Blvd., Suite 102
San Antonio, TX 78249-1618

Date Received: 10/27/15
Work Order: 15-10-1995
Preparation: EPA 3510C
Method: EPA 8270C

Project: EAA 27122

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-4132	**LCS**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 21:01**	**151030L05**
095-01-003-4132	**LCSD**	**Aqueous**	**GC/MS TT**	**10/30/15**	**10/31/15 21:20**	**151030L05**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	200.0	152.3	76	149.1	75	61-120	51-130	2	0-20	
Acenaphthylene	200.0	147.1	74	144.1	72	55-120	44-131	2	0-20	
Butyl Benzyl Phthalate	200.0	146.7	73	140.7	70	56-122	45-133	4	0-20	
4-Chloro-3-Methylphenol	200.0	147.7	74	140.6	70	52-120	41-131	5	0-20	
2-Chlorophenol	200.0	151.5	76	151.2	76	47-120	35-132	0	0-20	
1,4-Dichlorobenzene	200.0	145.2	73	144.4	72	36-120	22-134	1	0-20	
Dimethyl Phthalate	200.0	144.3	72	141.6	71	60-120	50-130	2	0-20	
2,4-Dinitrotoluene	200.0	159.4	80	156.6	78	61-121	51-131	2	0-20	
Fluorene	200.0	152.6	76	148.9	74	67-120	58-129	2	0-20	
N-Nitroso-di-n-propylamine	200.0	145.4	73	143.8	72	39-123	25-137	1	0-20	
Naphthalene	200.0	147.3	74	143.4	72	54-120	43-131	3	0-20	
4-Nitrophenol	200.0	146.4	73	140.6	70	14-120	0-138	4	0-20	
Pentachlorophenol	200.0	153.9	77	150.2	75	31-127	15-143	2	0-20	
Phenol	200.0	153.6	77	150.4	75	17-120	0-137	2	0-20	
Pyrene	200.0	146.5	73	144.7	72	58-124	47-135	1	0-20	
1,2,4-Trichlorobenzene	200.0	144.6	72	142.8	71	49-120	37-132	1	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 32 of 34

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-18641	**LCS**	**Aqueous**	**GC/MS O**	**10/30/15**	**10/30/15 11:23**	**151030L006**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	51.34	103	80-120	73-127	
Carbon Tetrachloride	50.00	55.65	111	67-139	55-151	
Chlorobenzene	50.00	53.08	106	78-120	71-127	
1,2-Dibromoethane	50.00	44.29	89	80-120	73-127	
1,2-Dichlorobenzene	50.00	47.54	95	63-129	52-140	
1,2-Dichloroethane	50.00	43.88	88	70-130	60-140	
1,1-Dichloroethene	50.00	54.03	108	66-126	56-136	
Ethylbenzene	50.00	56.52	113	80-123	73-130	
Toluene	50.00	50.59	101	80-120	73-127	
Trichloroethene	50.00	51.16	102	80-122	73-129	
Vinyl Chloride	50.00	45.35	91	70-130	60-140	
p/m-Xylene	100.0	119.1	119	75-123	67-131	
o-Xylene	50.00	57.37	115	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	42.34	85	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 33 of 34

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-18638	**LCS**	**Aqueous**	**GC/MS JJ**	**10/30/15**	**10/30/15 09:22**	**151030L001**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	44.86	90	80-120	73-127	
Carbon Tetrachloride	50.00	45.83	92	67-139	55-151	
Chlorobenzene	50.00	49.75	99	78-120	71-127	
1,2-Dibromoethane	50.00	47.32	95	80-120	73-127	
1,2-Dichlorobenzene	50.00	50.57	101	63-129	52-140	
1,2-Dichloroethane	50.00	44.90	90	70-130	60-140	
1,1-Dichloroethene	50.00	49.31	99	66-126	56-136	
Ethylbenzene	50.00	51.39	103	80-123	73-130	
Toluene	50.00	46.04	92	80-120	73-127	
Trichloroethene	50.00	46.01	92	80-122	73-129	
Vinyl Chloride	50.00	43.42	87	70-130	60-140	
p/m-Xylene	100.0	103.5	104	75-123	67-131	
o-Xylene	50.00	50.82	102	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	40.02	80	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

SWCA Environmental Consultants		Date Received:	10/27/15
6200 UTSA Blvd., Suite 102		Work Order:	15-10-1995
San Antonio, TX 78249-1618		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: EAA 27122			Page 34 of 34

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-18642	**LCS**	**Aqueous**	**GC/MS QQ**	**10/30/15**	**10/30/15 11:44**	**151030L010**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	47.31	95	80-120	73-127	
Carbon Tetrachloride	50.00	56.26	113	67-139	55-151	
Chlorobenzene	50.00	47.56	95	78-120	71-127	
1,2-Dibromoethane	50.00	52.71	105	80-120	73-127	
1,2-Dichlorobenzene	50.00	50.77	102	63-129	52-140	
1,2-Dichloroethane	50.00	47.64	95	70-130	60-140	
1,1-Dichloroethene	50.00	33.34	67	66-126	56-136	
Ethylbenzene	50.00	46.63	93	80-123	73-130	
Toluene	50.00	46.98	94	80-120	73-127	
Trichloroethene	50.00	45.97	92	80-122	73-129	
Vinyl Chloride	50.00	37.64	75	70-130	60-140	
p/m-Xylene	100.0	88.45	88	75-123	67-131	
o-Xylene	50.00	45.28	91	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	49.54	99	69-129	59-139	

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-10-1995 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 300.0	N/A	1027	IC 15	1
EPA 365.1	N/A	735	ACA 1	1
EPA 6010B	EPA 3005A Filt.	935	ICP 7300	1
EPA 6020	EPA 3005A Filt.	598	ICP/MS 03	1
EPA 7470A	EPA 7470A Filt.	915	Mercury 04	1
EPA 8081A	EPA 3510C	669	GC 44	1
EPA 8082	EPA 3510C	669	GC 31	1
EPA 8141A	EPA 3510C	960	GC 26	1
EPA 8151A	EPA 8151A	669	GC 40	1
EPA 8260B	EPA 5030C	486	GC/MS JJ	2
EPA 8260B	EPA 5030C	486	GC/MS QQ	2
EPA 8260B	EPA 5030C	867	GC/MS O	2
EPA 8260B	EPA 5030C	927	GC/MS JJ	2
EPA 8270C	EPA 3510C	923	GC/MS SS	1
EPA 8270C	EPA 3510C	923	GC/MS TT	1
SM 2320B	N/A	650	PH1/BUR03	1
SM 2320B	N/A	688	PH1/BUR03	1
SM 2540 C	N/A	689	N/A	1
SM 2540 D	N/A	689	N/A	1
SM 4500 H+ B	N/A	650	PH 1	1
SM 4500 N Org B	N/A	685	BUR05	1
SM 5310 B	N/A	735	TOC 8	1
SM 5310 B	N/A	735	TOC 11	1

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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841
Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841

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Glossary of Terms and Qualifiers

Work Order: 15-10-1995 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **15-10-1995**

DATE: 10/26/15

PAGE: 1 OF 5

LABORATORY CLIENT: SWCA Environmental Consultants

ADDRESS: 6200 UTSA Blvd. Suite 102

CITY: San Antonio STATE: TX ZIP: 78249-1618

TEL: 210.877.2847 E-MAIL: PPearce@swca.com

CLIENT PROJECT NAME / NUMBER: EAA 27122

P.O. NO.:

PROJECT CONTACT: Philip Pearce

SAMPLER(S): (PRINT) Brittany Rios, Jennifer Moreland, Philip Pearce

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 10 Days (standard)

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Samples for EPA 6010B, EPA 6020, and EPA 7470 Metals are field filtered
EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn
Please also analyze each sample for pH.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 6010B (Si, Ca, Mg, K, Na, Sr)	EPA 6020 (See Comments)	EPA 7470A Mercury	EPA 1694 (M) Caffeine	EPA 8081A Organochlorine Pesticides	EPA 8082 PCB Aroclors	EPA 8141A Organophosphorus Pest	EPA 8151A Chlorinated Herbicides	EPA 8270C Semi-Volatile Organics	EPA 8260B Volatile Organics	EPA 300 Anions (F, Cl, Br, NO3, SO4, CO3	EPA 365.1 Total Phosphorus	SM 2320B Alkalinity: Total, Bicarb, Carb	SM 5310B TOC	SM 5310B DOC	SM 5310B Solids, Total Dissolved	SM 4500 N Org B TKN	EPA 160.2 TSS
1	HCS 260 Peak	10/23/2015	15:01	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	HCS 270 Peak	10/23/2015	15:16	NPW	11	2	9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 10/20/15	Time: 12:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 10/27/15	Time: 1430
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

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CHAIN OF CUSTODY RECORD

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WO # / LAB USE ONLY: 10- 1995

DATE: 10/26/15

PAGE: 2 OF 5

LABORATORY CLIENT: SWCA Environmental Consultants

ADDRESS: 6200 UTSA Blvd. Suite 102

CITY: San Antonio STATE: TX ZIP: 78249-1618

TEL: 210.877.2847 E-MAIL: PPearce@swca.com

CLIENT PROJECT NAME / NUMBER: EAA 27122

P.O. NO.:

PROJECT CONTACT: Philip Pearce

SAMPLER(S): (PRINT) Jennifer Moreland, Brittany Rios, Philip Pearce

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 10 Days (standard)

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Samples for EPA 6010B, EPA 6020, and EPA 7470 Metals are field filtered
EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn
Please also analyze each sample for pH.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 6010B (Si, Ca, Mg, K, Na, Sr)	EPA 6020 (See Comments)	EPA 7470A Mercury	EPA 1694 (M) Caffeine	EPA 8081A Organochlorine Pesticides	EPA 8082 PCB Aroclors	EPA 8141A Organophosphorus Pest	EPA 8151A Chlorinated Herbicides	EPA 8270C Semi-Volatile Organics	EPA 8260B Volatile Organics	EPA 300 Anions (F, Cl, Br, NO3, SO4, CO3)	EPA 365.1 Total Phosphorus	SM 2320B Alkalinity: Total, Bicarb, Carb	SM 5310B TOC	SM 5310B DOC	SM 5310B Solids, Total Dissolved	SM 4500 N Org B TKN	EPA 160.2 TSS
3	HCS 210 Trail	10/23/2015	16:14	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	HCS 240 Trail	10/23/2015	16:29	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	HCS 250 Trail	10/23/2015	17:09	NPW	11	2	9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	HCS 260 Trail	10/23/2015	16:50	NPW	11	2	9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	HCS 270 Trail	10/23/2015	17:34	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	FDHCS 260 Trail	10/23/2015	16:50	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	FDHCS 270 Trail	10/23/2015	17:34	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	TB15			NPW	1													X								

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 10/26/15	Time: 12:26
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 10/27/15	Time: 1430
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

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CHAIN OF CUSTODY RECORD

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For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

WO # / LAB USE ONLY: 10-1995

DATE: 10/26/15

PAGE: 3 OF 5

LABORATORY CLIENT: SWCA Environmental Consultants

ADDRESS: 6200 UTSA Blvd. Suite 102

CITY: San Antonio STATE: TX ZIP: 78249-1618

TEL: 210.877.2847 E-MAIL: PPearce@swca.com

CLIENT PROJECT NAME / NUMBER: EAA 27122

P.O. NO.:

PROJECT CONTACT: Philip Pearce

SAMPLER(S): (PRINT) Jennifer Moreland, Brittany Rios, Philip Pearce

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 10 Days (standard)

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Samples for EPA 6010B, EPA 6020, and EPA 7470 Metals are field filtered

EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn

Please also analyze each sample for pH

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 6010B (Si, Ca, Mg, K, Na, Sr)	EPA 6020 (See Comments)	EPA 7470A Mercury	EPA 1694 (M) Caffeine	EPA 8081A Organochlorine Pesticides	EPA 8082 PCB Aroclors	EPA 8141A Organophosphorus Pest	EPA 8151A Chlorinated Herbicides	EPA 8270C Semi-Volatile Organics	EPA 8260B Volatile Organics	EPA 300 Anions (F, Cl, Br, NO3, SO4)	EPA 365.1 Total Phosphorus	SM 2320B Alkalinity: Total, Bicarb, Carb	SM 5310B TOC	SM 5310B DOC	SM 5310B Solids, Total Dissolved	SM 4500 N Org B TKN	EPA 160.2 TSS
11	HSM 210 Trail	10/23/2015	20:35	NPW	9	2	7	1	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X
12	HSM 230 Trail	10/23/2015	21:01	NPW	9	2	7	1	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X
13	HSM 231 Trail	10/23/2015	21:21	NPW	9	2	7	1	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X
14	HSM 240 Trail	10/23/2015	20:51	NPW	9	2	7	1	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X
15	HSM 250 Trail	10/23/2015	21:06	NPW	9	2	7	1	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X
16	HSM 260 Trail	10/23/2015	21:35	NPW	9	2	7	1	x	X	X	X	X	X	X	X	X	x	X	X	x	X	X	x	X	X
17	HSM 270 Trail	10/23/2015	21:55	NPW	11	2	9	1	x	X	X	X	X	X	X	X	X	x	X	X	x	X	X	x	X	X
18	FDHSM 210 Trail	10/23/2015	20:35	NPW	11	2	9	1	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X
19	FDHSM 230 Trail	10/23/2015	21:01	NPW	9	2	7	1	x	X	X	X	X	X	X	X	X	x	X	X	x	X	X	x	X	X
20	FDHSM231 Trail	10/23/2015	21:21	NPW	9	2	7	1	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X	x	X	X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 10/26/15	Time: 12:26
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 10/27/15	Time: 1430
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P.O. NO.:

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☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 10 Days (standard)

☐ COELT EDF GLOBAL ID: LOG CODE:

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Samples for EPA 6010B, EPA 6020, and EPA 7470 Metals are field filtered

EPA 6020 Metals: Zn, Tl, Se, Sb, Pb, Ni, Cu, Cr, Cd, Be, Ba, As, Al, Ag, Fe, Mn

Please also analyze each sample for pH

REQUESTED ANALYSES

Please check box or fill in blank as needed.

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21	HSM 210 Lead	10/23/2015	15:25	NPW	11	2	9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	HSM 230 Lead	10/23/2015	15:41	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	HSM 231 Lead	10/23/2015	16:02	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	HSM 240 Lead	10/23/2015	15:30	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	HSM 250 Lead	10/23/2015	16:21	NPW	11	2	9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	HSM 260 Lead	10/23/2015	15:58	NPW	9	2	7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	HSM 270 Lead	10/23/2015	16:15	NPW	11	2	9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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28	HSM 210 Peak	10/23/2015	17:02	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
29	HSM 230 Peak	10/23/2015	17:16	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
30	HSM 231 Peak	10/23/2015	17:06	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
31	HSM 240 Peak	10/23/2015	17:34	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
32	HSM 250 Peak	10/23/2015	17:05	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
33	HSM 260 Peak	10/23/2015	17:25	NPW	9	2	7	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
34	HSM 270 Peak	10/23/2015	17:45	NPW	11	2	9	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

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24 of 25
MPS# 0263 7748 2142 1489
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

14 of 25
MPS# 0263 7748 2142 0655
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

10 of 25
MPS# 0263 7748 2142 0530
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

2 of 25
MPS# 0263 7748 2141 9272
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

11 of 25
MPS# 0263 7748 2142 0552
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

4 of 25
MPS# 0263 7748 2141 9640
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

1 of 25
TRK# 0201 7748 2141 9066
MASTER
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
ASR
92841
CA-US SNA

3 of 25
MPS# 0263 7748 2141 9342
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

1 of 8
TRK# 0201 7748 2288 5010
MASTER
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
ASR
92841
CA-US SNA

25 of 25
MPS# 0263 7748 2142 1684
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

9 of 25
MPS# 0263 7748 2142 0081
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

22 of 25
MPS# 0263 7748 2142 2007
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

5 of 25
MPS# 0263 7748 2141 9905
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

13 of 25
MPS# 0263 7748 2142 0839
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

18 of 25
MPS# 0263 7748 2142 1283
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

19 of 25
MPS# 0263 7748 2142 1055
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

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PHILIP C. PEARCE, P.G.
SWCA
6200 UTSA BLVD
STE 102
SAN ANTONIO, TX 78249
UNITED STATES US

SHIP DATE: 26OCT15
ACTWGT: 70.00 LB
CAD: 8347991/INET3670
DIMS: 24x13x14 IN

BILL SENDER

LAB
EUROFINS CALSCIENCE
7440 LINCOLN WAY

GARDEN GROVE CA 92841
(714) 895-5494 REF: 27122.02.01
INV:
PO: DEPT:

FedEx Express

8 of 25
MPS# 0263 7748 2142 0060
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
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7 of 25
MPS# 0263 7748 2141 9489
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

8 of 8
MPS# 0263 7748 2288 5866
Mstr# 7748 2288 5010
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

20 of 25
MPS# 0263 7748 2142 1066
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

2 of 8
MPS# 0263 7748 2288 4734
Mstr# 7748 2288 5010
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

6 of 8
MPS# 0263 7748 2288 5616
Mstr# 7748 2288 5010
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

23 of 25
MPS# 0263 7748 2142 2018
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

3 of 8
MPS# 0263 7748 2288 5215
Mstr# 7748 2288 5010
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

16 of 25
MPS# 0263 7748 2142 1228
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

5 of 8
MPS# 0263 7748 2288 5395
Mstr# 7748 2288 5010
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
SNA

15 of 25
MPS# 0263 7748 2142 0482
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
SNA

4 of 8
MPS# 0263 7748 2288 4860
Mstr# 7748 2288 5010
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841

21 of 25
MPS# 0263 7748 2142 1560
Mstr# 7748 2141 9066
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841

6 of 25
MPS# 0263 7748 2141 9880
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
0201 ASR
92841
CA-US SNA

17 of 25
MPS# 0263 7748 2142 0986
Mstr# 7748 2141 9066
A7 APVA
TUE - 27 OCT 3:00P
STANDARD OVERNIGHT
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92841
CA-US SNA

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.0 °C (w/ CF): 1.6 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 107

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: 150909E)

Aqueous: ☐ VOA ☑ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 25gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 197

Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.1 °C (w/ CF): 1.7 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 1017

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 3 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 3.0 °C (w/ CF): 2.6 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 25gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 4 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 1.5 °C (w/ CF): 1.1 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 1017

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 5 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 1.7 °C (w/ CF): 1.3 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 25gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 1017

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 6 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 3.1 °C (w/ CF): 2.7 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 25gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 7 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.2 °C (w/ CF): 1.8 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 25gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 1017

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 8 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.9 °C (w/ CF): 2.5 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 1017

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 9 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.9 °C (w/ CF): 2.5 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 25gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 10 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 3.3 °C (w/ CF): 2.9 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 11 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 3.2 °C (w/ CF): 2.8 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 197

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na₂** ☐ 100PJ ☐ 100PJ**na₂** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na₂** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 197

Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 12 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 3.0 °C (w/ CF): 2.6 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 1017

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 30D

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 13 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.1 °C (w/ CF): 1.7 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 197

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOAna_2 ☐ 100RJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGBs (2) ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☑ 1AGB ☐ 1AGBna_2 ☑ 1AGBs ☐ 1PB ☐ 1PBna ☑ 25gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 197

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 14 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.3 °C (w/ CF): 1.9 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1097

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na$_2$** ☐ 100RJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 1097

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 30D

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 15 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 1.4 °C (w/ CF): 1.0 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 107

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 197

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 16 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.5 °C (w/ CF): 2.1 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 197

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 197

Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 17 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.6 °C (w/ CF): 2.2 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 197

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na$_2$** ☐ 100RJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGBs (2) ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGBs ☐ 1PB ☐ 1PBna ☑ 2.5gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 197

Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 18 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.5 °C (w/ CF): 2.1 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 197

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 25gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 197

Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 19 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 1.9 °C (w/ CF): 1.5 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 197

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 25gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 197

Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 20 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.0 °C (w/ CF): 1.6 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1097

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 1097

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 30D

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 21 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 1.9 °C (w/ CF): 1.5 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 197

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGBs (2) ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGBs ☐ 1PB ☐ 1PBna ☑ 2.5gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 197

Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 22 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 1.8 °C (w/ CF): 1.4 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 25gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 1017

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 23 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.5 °C (w/ CF): 2.1 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 107

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 25gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 107

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 24 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.1 °C (w/ CF): 1.7 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 107

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 25gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 197

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 25 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.3 °C (w/ CF): 1.9 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 107

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 25gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 197

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 26 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.5 °C (w/ CF): 2.1 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 1017

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 27 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.4 °C (w/ CF): 2.0 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 107

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 25gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 107

Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 28 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 3.0 °C (w/ CF): 2.6 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 107

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 25gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 107

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 29 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.3 °C (w/ CF): 1.9 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 197

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 25gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 197

Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 30 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.2 °C (w/ CF): 1.8 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 197

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 197

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 31 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 1.9 °C (w/ CF): 1.5 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 197

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na$_2$** ☐ 100RJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 197

Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE RECEIPT CHECKLIST

COOLER 32 OF 32

CLIENT: SWCA

DATE: 10 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.4°C); Temperature (w/o CF): 2.0 °C (w/ CF): 1.6 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 15

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 15

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 197

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☐	☑	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☑ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☑	☐
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOA**na**$_2$ ☐ 100PJ ☐ 100PJ**na**$_2$ ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☑ 250CGB**s** (2) ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na**$_2$ ☑ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☑ 2.5gal ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na**$_2$ = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 197

s = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH Reviewed by: 300

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WORK ORDER NUMBER: 15-10- 1995

SAMPLE ANOMALY REPORT

DATE: 10 / 27 / 2015

SAMPLES, CONTAINERS, AND LABELS:

- ☑ Sample(s) NOT RECEIVED but listed on COC
- ☐ Sample(s) received but NOT LISTED on COC
- ☑ Holding time expired (list client or ECI sample ID and analysis)
- ☐ Insufficient sample amount for requested analysis (list analysis)
- ☐ Improper container(s) used (list analysis)
- ☐ Improper preservative used (list analysis)
- ☐ No preservative noted on COC or label (list analysis and notify lab)
- ☐ Sample container(s) not labeled
- ☐ Client sample label(s) illegible (list container type and analysis)
- ☐ Client sample label(s) do not match COC (comment)
  - ☐ Project information
  - ☐ Client sample ID
  - ☐ Sampling date and/or time
  - ☐ Number of container(s)
  - ☐ Requested analysis
- ☐ Sample container(s) compromised (comment)
  - ☐ Broken
  - ☐ Water present in sample container
- ☐ Air sample container(s) compromised (comment)
  - ☐ Flat
  - ☐ Very low in volume
  - ☐ Leaking (not transferred; duplicate bag submitted)
  - ☐ Leaking (transferred into ECI Tedlar™ bags*)
  - ☐ Leaking (transferred into client's Tedlar™ bags*)

* Transferred at client's request.

Comments

(-32) HSM 250 Peak not received.

pH and NO_3 received past holding time.

MISCELLANEOUS: (Describe)

Comments

HEADSPACE:

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**

(Containers with bubble for other analysis)

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis

Comments:

Reported by: 1017

Reviewed by: 3D

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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Subcontractor Analysis Report

Work Order: 15-10-1995 Page 1 of 1

One or more samples in this work order have tests that were subcontracted. The subcontract report(s) follows.

For subcontracted tests, please reference the laboratory information noted below.

1. ALS - Columbia Analytical Services, Inc. - Kelso,WA CA ELAP 2286, NELAP WA100010
   Method 1694 Caffeine

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o e er **Analytical Report for Service Request No:**

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RE: 15-10-1995

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ALS Group USA, Corp. dba ALS Environmental

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

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State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

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Case Narrative

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ALS ENVIRONMENTAL

Client:	Eurofins Calscience Environmental Laboratory	**Service Request No.:**	K1512268
Project:	15-10-1995	**Date Received:**	10/29/15
Sample Matrix:	Water		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Thirty-two water samples were received for analysis at ALS Environmental on 10/29/15. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4ºC upon receipt at the laboratory.

Steroids and Endocrine Disrupting Compounds by Method 1694

Elevated Detection Limits:
Samples HCS 210 Trail, HCS 270 Trail, HSM 230 Trail, FDHSM 230 Trail, HSM 230 Lead and HSM 240 Lead required dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

No other anomalies associated with the analysis of these samples were observed.

Approved by_____

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Chain of Custody

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

K1542268

CHAIN OF CUSTODY RECORD

To: ALS - Kelso

DATE: 10/28/15

PAGE: 1 OF 3

LABORATORY CLIENT: Eurofins Calscience, Inc.	CLIENT PROJECT NAME / NUMBER: 15-10-1995
ADDRESS: 7440 Lincoln Way	P.O. NO.: 15-10-1995
CITY: Garden Grove STATE: CA ZIP: 92841-1427	PROJECT CONTACT: Don Burley
TEL: 714-895-5494 E-MAIL: DonaldBurley@eurofinsUS.com	SAMPLER(S): (PRINT) N/A

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
SAME DAY 24 HR 48 HR 72 HR 5 DAYS **X STANDARD**

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 1694 Caffeine
	HCS 260 Peak	10/23/15	15:01	W	1	X			X
	HCS 270 Peak	10/23/15	15:16	W	1	X			X
	HCS 210 Trail	10/23/15	16:14	W	1	X			X
	HCS 240 Trail	10/23/15	16:29	W	1	X			X
	HCS 250 Trail	10/23/15	17:09	W	1	X			X
	HCS 260 Trail	10/23/15	16:50	W	1	X			X
	HCS 270 Trail	10/23/15	17:34	W	1	X			X
	FDHCS 260 Trail	10/23/15	16:50	W	1	X			X
	FDHCS 270 Trail	10/23/15	17:34	W	1	X			X
	HSM 210 Trail	10/23/15	20:35	W	1	X			X
	HSM 230 Trail	10/23/15	21:01	W	1	X			X
	HSM 231 Trail	10/23/15	21:21	W	1	X			X

Relinquished by: (Signature)	Received by: (Signature/Affiliation) Fedex # 774850481436	Date: 10/28/15	Time: 1530
Relinquished by: (Signature)	Received by: (Signature/Affiliation) ALS	Date: 10/29/15	Time: 0930

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K1512268

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CHAIN OF CUSTODY RECORD

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To: ALS - Kelso

DATE: 10/28/15

PAGE: 2 OF 3

LABORATORY CLIENT: Eurofins Calscience, Inc.	CLIENT PROJECT NAME / NUMBER: 15-10-1995
ADDRESS: 7440 Lincoln Way	P.O. NO.: 15-10-1995
CITY: Garden Grove STATE: CA ZIP: 92841-1427	PROJECT CONTACT: Don Burley
TEL: 714-895-5494 E-MAIL: DonaldBurley@eurofinsUS.com	SAMPLER(S): (PRINT) N/A

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
SAME DAY 24 HR 48 HR 72 HR 5 DAYS **X STANDARD**

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 1694 Caffeine
	HSM 240 Trail	10/23/15	20:51	W	1	X			X
	HSM 250 Trail	10/23/15	21:06	W	1	X			X
	HSM 260 Trail	10/23/15	21:35	W	1	X			X
	HSM 270 Trail	10/23/15	21:55	W	1	X			X
	FDHSM 210 Trail	10/23/15	20:35	W	1	X			X
	FDHSM 230 Trail	10/23/15	21:01	W	1	X			X
	FDHSM 231 Trail	10/23/15	21:21	W	1	X			X
	HSM 210 Lead	10/23/15	15:25	W	1	X			X
	HSM 230 Lead	10/23/15	15:41	W	1	X			X
	HSM 231 Lead	10/23/15	16:02	W	1	X			X
	HSM 240 Lead	10/23/15	16:30	W	1	X			X
	HSM 250 Lead	10/23/15	16:21	W	1	X			X

Relinquished by: (Signature)	Received by: (Signature/Affiliation) Fedex# 774850481436	Date: 10/28/15	Time: 1530
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 10/29/15	Time: 0930

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CHAIN OF CUSTODY RECORD

To: ALS - Kelso

DATE: 10/28/15

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LABORATORY CLIENT: Eurofins Calscience, Inc.	CLIENT PROJECT NAME / NUMBER: 15-10-1995
ADDRESS: 7440 Lincoln Way	P.O. NO.: 15-10-1995
CITY: Garden Grove STATE: CA ZIP: 92841-1427	PROJECT CONTACT: Don Burley
TEL: 714-895-5494 E-MAIL: DonaldBurley@eurofinsUS.com	SAMPLER(S): (PRINT) N/A

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
SAME DAY 24 HR 48 HR 72 HR 5 DAYS **X STANDARD**

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	EPA 1694 Caffeine
	HSM 260 Lead	10/23/15	15:58	W	1	X			X
	HSM 270 Lead	10/23/15	16:15	W	1	X			X
	HSM 210 Peak	10/23/15	17:02	W	1	X			X
	HSM 230 Peak	10/23/15	17:16	W	1	X			X
	HSM 231 Peak	10/23/15	17:06	W	1	X			X
	HSM 240 Peak	10/23/15	17:34	W	1	X			X
	~~HSM 250 Peak~~	~~10/23/15~~	~~17:05~~	~~W~~	~~1~~	~~X~~			~~X~~
	HSM 260 Peak	10/23/15	17:25	W	1	X			X
	HSM 270 Peak	10/23/15	17:45	W	1	X			X

Relinquished by: (Signature)	Received by: (Signature/Affiliation) Fedex # 774850481436	Date: 10/28/15	Time: 1530
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 10/29/15	Time: 0930

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Cooler Receipt and Preservation Form

Client / Project: Eurofin Cal Science Service Request K15 12268

Received: 10/29/15 Opened: 10/29/15 By: KD Unloaded: 10/29/15 By: KD

1. Samples were received via? *Mail* (*Fed Ex*) *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1, Front
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID (NA)	Tracking Number NA	Filed
-.6	-.3	—	—	+.3	323		774850481436	
-.7	-.5	—	—	+.2	371		774850481138	
-.4	-.2	—	—	+.2	368		774850481697	

4. Packing material: *Inserts* (*Baggies*) (*Bubble Wrap*) *Gel Packs* (*Wet Ice*) *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA (Y) N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA (Y) N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA (Y) N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
12. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page _____ *of* _____

Steroids and Endocrine Disrupting Compounds

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AMPLIFIED GEOCHEMICAL IMAGING, LLC

Laboratory Report

Site: Comal & San Marcos Rivers
February 2015 Sampling

Prepared for:

SWCA Environmental
10245 Little York Road Suite 600
Houston, Texas
UNITED STATES

Prepared on:
March 04, 2015

Project Summary and Objective

Amplified Geochemical Imaging, LLC. (AGI) provided the AGI Environmental Survey used at:

Comal & San Marcos Rivers

February 2015 Sampling

The service provided by AGI included delivery of the required quantity of AGI Universal Samplers, analysis by the method described below for the requested organic compounds, reporting of the data, and contour mapping (as needed).

This report includes results for only the samples noted under the Laboratory Sample Report section. If contour maps are part of the project deliverable, the maps will be prepared and issued under a separate report cover, upon receipt of a usable sitemap (electronic) and compound choices for contouring.

Written/submitted by:

Jim E Whetzel

Project Manager

Reviewed/approved by:

Don D'Apolito

Project Manager

Analytical data approved by:

Fatima Niazi

Chemist

Quality Assurance Statement

The AGI Laboratory, at Amplified Geochemical Imaging's facility in Elkton, MD USA, operates under the guidelines of its ISO Standard 17025 DoD ELAP accreditation, and its Quality Assurance Manual, Operating Procedures, and Methods (SPG-SOP-0462).

For this project, the analytical method, results, and observations reported do [ ] do not [√] fall within the scope of AGI's ISO 17025 accreditation.

Screening/Concentration Method

The AGI Universal Samplers are analyzed at AGI's fixed laboratory using thermal desorption-gas chromatography/mass spectrometry (TD-GC/MS) instrumentation following U.S. EPA Method 8260 (SPG-WI-0292) which includes the following:

- **BFB Tuning Frequency:** A BFB tune is analyzed at the start of each analytical run and after every 30 samples.
- **Initial Calibration:** A minimum of a five point calibration curve is analyzed prior to the analysis of samples.
- **Linearity of Target Compounds:** If the RSD of any target analyte is less than or equal to 25% then average response factor can be used for quantitation. If the RSD exceeds 25% for a target compound a regression equation can be used for quantitation.
- **Continuing Calibration Verification:** After every 10 samples, and at the end of each analytical batch, and a second-source Reference Standard is analyzed near the mid point of the calibration curve. The acceptance criteria for all target analytes in the reference standards are +/- 50% of the true value.
- **Method Blank:** Analyzed prior to the analysis of field samples and every 30 samples.

Note: Analyte levels reported for the field-deployed AGI Universal Samplers that exceed trip and method blank levels, and/or the reporting limit, are more likely to have originated from on-site sources.

Media Sampled:	WATER
Chemist - sample analysis:	Kelly J Stringham
Chemist - data processor:	Kelly J Stringham
Chemist - data review:	Fatima Niazi

Method deviations: No data is available for the initial method blank. Data was inadvertently overwritten. There was no evidence of system contamination observed in any other QC sample.

Please note that data file names ending with R are rerun samples using the second pair of sorbers, in which the original results were not reported. Data file names ending in D are duplicate analysis results for the second set of sorbers from the same sampler, and are reported.

Additional Report Information

- Comments
- Laboratory Sample Report
- Chain of Custody
- Installation and Retrieval Log
- Analytical Results and Key
- Concentration Calculation Method Summary
- Total Ion Chromatograms

Project Specific Comments

None.

Survey period [1]	Samplers were installed on February 3, 2015 and retrieved on February 17, 2015 for an exposure period of 14 days.
Tamper seal intact:	Yes
Date received:	2/18/2015 1:00 PM By: Lisa Bozette
COC returned:	Yes
Comments:	None

1 - Installation start to end of retrieval, as reported. See installation and retrieval log for individual deployment and retrieval dates and times (i.e., sampler exposure time).

General Comments

Analytical QA/QC

Laboratory instrumentation consists of gas chromatographs equipped with mass selective detectors, coupled with automated thermal desorption units. Sample preparation involves cutting the tip off the bottom of the AGI Universal Sampler, and transferring one or more "sorbers" to a thermal desorption tube for analysis. The insertion/retrieval cord prevents soil, water and other interferences from coming in contact with the adsorbent. No further sample preparation is required. Any replicate sorbers not consumed in the initial analysis will be discarded fifteen (15) days from the date of the laboratory report.

Data are archived and stored in a secure manner as per AGI's Quality Assurance program (SPG-SOP-0462).

Total petroleum hydrocarbons (TPH), gasoline-range petroleum hydrocarbons (GRPH), and/or diesel range petroleum hydrocarbons (DRPH), when reported, are calculated using the area under the peaks observed in m/z 55 and 57 selected ion chromatograms. Quantitation of the mass values was performed using the response factor for a specific alkane (present in the calibration standards). TPH values include the entire chromatogram and provide estimates for aliphatic hydrocarbon ranges of C4 to C20. GRPH and DRPH include only the relevant regions of the chromatograms and provide estimates for C4 to C10 and C10 to C20 aliphatic hydrocarbons, respectively.

Trip blanks were provided to document potential exposures that were not part of the signal of interest (e.g., impact during sampler shipment, installation and/or retrieval, and storage). The trip blanks are identically manufactured and packaged AGI Universal Samplers to those samplers deployed in the field . The trip blanks remain unopened during all phases of the project. Levels reported on the trip blanks may indicate potential impact to the samplers other than the contaminant source of interest.

Unresolved peak envelopes (UPEs) are represented as a series of compound peaks clustered together around a central gas chromatograph elution time in the total ion chromatogram. UPEs may be indicative of complex fluid mixtures. UPEs observed early in the chromatograms are considered to indicate presence of more volatile fluids, while UPEs observed later in the chromatogram may indicate the presence of less volatile fluids. Multiple UPEs may indicate the presence of multiple complex fluids.

Total ion chromatograms (TICs) are included in the Attachments. The eight-digit serial number of each sampler is incorporated in the TIC identification (e.g., 12345678.D represents AGI Universal Sampler 12345678).

General Comments

Soil Gas Sampling

For soil gas sampling, the AGI Environmental Survey reports mass levels migrating through the open pore spaces of the soil and diffusing through the sampler membrane for sorption by the engineered, hydrophobic adsorbents, housed within the membrane tube. During the migration of the soil gas away from the source to the AGI Universal Sampler, the vapors are subject to a variety of attenuation factors. The soil gas masses reported on the samplers compare favorably with the concentrations reported in the soil or groundwater (e.g., where soil gas levels are reported at greater levels to other sampled locations on the site, the matrix data should reveal the same pattern, and vice versa). However, due to a variety of factors, a perfect comparison between matrix data and soil gas levels can rarely be achieved.

Soil gas concentrations (µg/m3) are calculated following the method described in the Additional Report Information section.

Soil gas signals reported by this method cannot be correlated specifically to soil adsorbed, groundwater, and /or free-phase contamination. The soil gas signal reported from each AGI Universal Sampler can evolve from all of these sources. Differentiation between soil and groundwater contamination can only be achieved with prior knowledge of the site history (i.e., the site is known to have groundwater contamination only).

Air Sampling

For indoor, outdoor, and crawlspace air sampling, the AGI Environmental Survey reports mass levels present in the air and diffusing through the sampler membrane for sorption by the engineered adsorbents housed within the membrane tube.

Air concentrations (µg/m3) are calculated following the method described in the Additional Report Information section.

Groundwater and Sediment Porewater Sampling

For groundwater and sediment porewater sampling, the AGI Environmental Survey reports the mass levels of compounds present in the water which, when coming in contact with the sampler membrane, partitions out of solution, and diffuses through the sampler membrane for sorption by the engineered adsorbents.

Water concentrations (µg/L) are calculated using the quantified mass, exposure period and the compound specific uptake rate. The rates were measured under controlled experimental conditions. The uptake rates are corrected for water pressure (depth of the AGI Universal Sampler below the water table), water temperature and the aquifer flow rate. For sediment porewater, the uptake rate is corrected for the reduced volume of water in the sediment, by multiplying the uptake rate by the pore water fraction.

LABORATORY SAMPLE REPORT

Project: ENV 01315-2 **Site Name: Comal & San Marcos Rivers** **Module Type: SPG0008**

Module ID	Sample Type	Field ID
00755224	FIELD_SAMPLE	HCS410
00755225	FIELD_SAMPLE	HCS420
00755226	FIELD_SAMPLE	HCS430
00755227	FIELD_SAMPLE	HCS440
00755228	FIELD_SAMPLE	FDHCS440
00755229	FIELD_SAMPLE	HCS460
00755230	FIELD_SAMPLE	HSM410
00755231	FIELD_SAMPLE	HSM420
00755232	FIELD_SAMPLE	HSM430
00755233	FIELD_SAMPLE	FDHSM430
00755234	FIELD_SAMPLE	HSM440
00755235	FIELD_SAMPLE	HSM450
00755236	FIELD_SAMPLE	HSM460
00755237	FIELD_SAMPLE	HSM470
00755238	TRIP_BLANK	TB02

Total # "FIELD SAMPLES"	Total # "TRIP BLANKS"	Total # "UNUSED"	Total # "LOST"
14	1	0	0

Duplicate samples: **0**

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AGI Universal Passive Sampler Chain of Groundwater Sampling

Production Order #: 01315

Customer Name: SWCA Environmental
Address: 10245 Little York Road Suite 600

Houston, Texas 77040
USA

Site Name: Comal & San Marcos Rivers
Site Address: 2015 sampling

Project Manager:

Serial # of Samplers Shipped
00755224 - 00755241

Returned
00755224 - 00755238

# of Samplers for Installation	17.00	# of Trip Blanks	1
Total Samplers Shipped	18.00	Pieces	
Total Samplers Received	18	Pieces	
Total Samplers Installed	13	Pieces	

Serial # of Trip Blanks (Client Decides)

00755238		

Prepared By: Lesia Borette
Verified By:

Is Concurrent water sampling planned this monitoring period? YES (NO)
Scheduled Sampling Date:

Installation Performed By:
Name: Jennifer Moreland Brittany Rios
Company: SWCA

Installation Start Date / Time: 2/3/15 9:11
Installation Complete Date / Time 2/3/15 12:45

Retrieval Performed By:
Name: Jennifer Moreland Brittany Rios
Company: SWCA

Retrieval Start Date / Time: 2/17/15 10:22
Retrieval Complete Date / Time 2/17/15 12:24

Total Samplers Retrieved: 13
Total Samplers Lost In Field: 0
Total Unused Samplers Returned: 3 extra kept for next install

Relinquished By	Lesia Borette	Date/Time	01/26/15 11:00
Company:	agi		
Received By:	Jennifer Moreland	Date/Time	01/28/15 13:00
Company:	SWCA		
Relinquished By	Jennifer Moreland	Date/Time	2/17/15 14:45
Company:	SWCA		
Received By:	Lesia Borette	Date/Time	2-18-15 1:00 pm
Company:	agi		

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AGI Project No. ENV 01077
Site Name: Comal & San Marco River
Site Location: New Braunfels and San Marcos, Texas

AGI Soil Gas Sampling
Installation & Retrieval Log

Company Name: SWCA Environmental
Location: Comal and San Marcos Rivers
Samples collected by: Philip Pearce and Jennifer Moreland

*** Optional or as needed**

					WATER QUALITY MONITORING						YES / NO	
SAMPLER SERIAL NO.	SAMPLE ID	SAMPLE TYPE (Field Sample, Trip Blank, Field Blank, etc.)	INSTALLATION DATE & TIME MM/DD/YYYY HH:MM (24 Hour) ex. 12/30/2000 13:00	RETRIEVAL DATE & TIME MM/DD/YYYY HH:MM (24 Hour) ex. 12/30/2000 15:00	INSTALLATION DEPTH FROM TOP OF CASING (feet)	DEPTH TO WATER FROM TOP OF CASING (feet)	SCREENED INTERVAL FROM TOP OF CASING (feet)	WATER TEMPERATURE AT MODULE DEPTH (deg C)	FLOW RATE THROUGH SCREEN: HIGH OR LOW (HIGH = flow > than 10 m/day; LOW = flow < 10 m/day)	OBSERVATIONS/COMMENTS* (e.g., observations, location description, missing, pulled from well, etc. - as needed)	EVIDENCE OF LIQUID PETROLEUM HYDROCARBONS?	ODOR ?
00755224	HCS410	FIELD_SAMPLE	2/3/2015 10:02	2/17/2015 11:56	1.5			22.4	High	None	No	No
00755225	HCS420	FIELD_SAMPLE	2/3/2015 10:13	2/17/2015 12:01	3			22.4	High	None	No	No
00755226	HCS430	FIELD_SAMPLE	2/3/2015 9:11	2/17/2015 11:25	7			22.4	High	None	No	No
00755227	HCS440	FIELD_SAMPLE	2/3/2015 10:27	2/17/2015 12:12	4			22.4	High	None	No	No
00755228	FDHCS440	FIELD_DUPLICATE	2/3/2015 10:27	2/17/2015 12:12	4			22.4	High	None	No	No
00755229	HCS460	FIELD_SAMPLE	2/3/2015 10:38	2/17/2015 12:24	4			22.4	High	None	No	No
00755230	HSM410	FIELD_SAMPLE	2/3/2015 11:32	2/17/2015 9:45	2			21.2	High	None	No	No
00755231	HSM420	FIELD_SAMPLE	2/3/2015 11:45	2/17/2015 9:55	4			21.2	High	None	No	No
00755232	HSM430	FIELD_SAMPLE	2/3/2015 11:55	2/17/2015 10:01	0.5			21.2	High	None	No	No
00755233	FDHSM430	FIELD_DUPLICATE	2/3/2015 11:55	2/17/2015 10:01	0.5			21.2	High	None	No	No
00755234	HSM440	FIELD_SAMPLE	2/3/2015 12:06	2/17/2015 10:08	5			21.2	High	None	No	No
00755235	HSM450	FIELD_SAMPLE	2/3/2015 12:22	2/17/2015 10:22	4			21.2	High	None	No	No
00755236	HSM460	FIELD_SAMPLE	2/3/2015 12:33	2/17/2015 10:35	3			21.2	High	None	No	No
00755237	HSM470	FIELD_SAMPLE	2/3/2015 12:45	2/17/2015 10:47	1.5			21.2	High	None	No	No
00755238	TB02	TRIP_BLANK	2/3/2015 9:11	2/17/2015 12:24	NA			NA	NA	None	NA	NA

SPG-FCD-8930 Water R4

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755224 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS410
Installation Date: 2/3/2015 10:02:00AM
Retrieval Date: 2/17/2015 11:56:00AM Date Analyzed: 2/25/2015 3:12:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.05**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755224 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS410
Installation Date: 2/3/2015 10:02:00AM
Retrieval Date: 2/17/2015 11:56:00AM Date Analyzed: 2/25/2015 3:12:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.76**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755225 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS420
Installation Date: 2/3/2015 10:13:00AM
Retrieval Date: 2/17/2015 12:01:00PM Date Analyzed: 2/25/2015 7:50:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.28**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2 **FOR: SWCA Environmental**

SITE NAME: Comal & San Marcos Rivers

SITE ADDRESS: February 2015 Sampling **Houston, Texas 77040**

USA

SAMPLER ID: 00755225 FIELD_SAMPLE Matrix: WATER Product: SPG0008

Dilution Factor: 1 Field ID: HCS420

Installation Date: 2/3/2015 10:13:00AM

Retrieval Date: 2/17/2015 12:01:00PM Date Analyzed: 2/25/2015 7:50:00PM

Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**

Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.52**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755226 FIELD_SAMPLE
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: HCS430
Installation Date: 2/3/2015 9:11:00AM
Retrieval Date: 2/17/2015 11:25:00AM
Date Analyzed: 2/25/2015 2:40:00PM
Analyst: Kelly J Stringham
Method: SPG-WI-0292
Batch: ENV-150223-2
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.29**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755226 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS430
Installation Date: 2/3/2015 9:11:00AM
Retrieval Date: 2/17/2015 11:25:00AM Date Analyzed: 2/25/2015 2:40:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**1.42**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755227 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS440
Installation Date: 2/3/2015 10:27:00AM
Retrieval Date: 2/17/2015 12:12:00PM Date Analyzed: 2/25/2015 7:19:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.28**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755227 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS440
Installation Date: 2/3/2015 10:27:00AM
Retrieval Date: 2/17/2015 12:12:00PM Date Analyzed: 2/25/2015 7:19:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.61**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755228 FIELD_SAMPLE
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: FDHCS440
Installation Date: 2/3/2015 10:27:00AM
Retrieval Date: 2/17/2015 12:12:00PM
Date Analyzed: 2/25/2015 9:23:00PM
Analyst: Kelly J Stringham
Method: SPG-WI-0292
Batch: ENV-150223-2
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.28**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2 **FOR: SWCA Environmental**

SITE NAME: Comal & San Marcos Rivers

SITE ADDRESS: February 2015 Sampling **Houston, Texas 77040**

USA

SAMPLER ID: 00755228 FIELD_SAMPLE Matrix: WATER Product: SPG0008

Dilution Factor: 1 Field ID: FDHCS440

Installation Date: 2/3/2015 10:27:00AM

Retrieval Date: 2/17/2015 12:12:00PM Date Analyzed: 2/25/2015 9:23:00PM

Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**

Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.76**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755229 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS460
Installation Date: 2/3/2015 10:38:00AM
Retrieval Date: 2/17/2015 12:24:00PM Date Analyzed: 2/25/2015 6:49:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.18**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755229 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS460
Installation Date: 2/3/2015 10:38:00AM
Retrieval Date: 2/17/2015 12:24:00PM Date Analyzed: 2/25/2015 6:49:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755230 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM410
Installation Date: 2/3/2015 11:32:00AM
Retrieval Date: 2/17/2015 9:45:00AM Date Analyzed: 2/25/2015 4:45:00PM
Analyst: Kelly J Stringham **Method:** SPG-WI-0292 **Batch:** ENV-150223-2
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	127-18-4	<0.02	0.02
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2 **FOR: SWCA Environmental**

SITE NAME: Comal & San Marcos Rivers

SITE ADDRESS: February 2015 Sampling **Houston, Texas 77040**

USA

SAMPLER ID: 00755230 FIELD_SAMPLE Matrix: WATER Product: SPG0008

Dilution Factor: 1 Field ID: HSM410

Installation Date: 2/3/2015 11:32:00AM

Retrieval Date: 2/17/2015 9:45:00AM Date Analyzed: 2/25/2015 4:45:00PM

Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**

Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.90**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755231 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM420
Installation Date: 2/3/2015 11:45:00AM
Retrieval Date: 2/17/2015 9:55:00AM Date Analyzed: 2/25/2015 8:52:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.08**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755231 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM420
Installation Date: 2/3/2015 11:45:00AM
Retrieval Date: 2/17/2015 9:55:00AM Date Analyzed: 2/25/2015 8:52:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755232 FIELD_SAMPLE
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: HSM430
Installation Date: 2/3/2015 11:55:00AM
Retrieval Date: 2/17/2015 10:01:00AM
Date Analyzed: 2/25/2015 9:54:00PM
Analyst: Kelly J Stringham
Method: SPG-WI-0292
Batch: ENV-150223-2
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.13**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755232 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM430
Installation Date: 2/3/2015 11:55:00AM
Retrieval Date: 2/17/2015 10:01:00AM Date Analyzed: 2/25/2015 9:54:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**1.27**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755233 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHSM430
Installation Date: 2/3/2015 11:55:00AM
Retrieval Date: 2/17/2015 10:01:00AM Date Analyzed: 2/25/2015 4:14:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.16**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755233 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHSM430
Installation Date: 2/3/2015 11:55:00AM
Retrieval Date: 2/17/2015 10:01:00AM Date Analyzed: 2/25/2015 4:14:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.99**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755234 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM440
Installation Date: 2/3/2015 12:06:00PM
Retrieval Date: 2/17/2015 10:08:00AM Date Analyzed: 2/25/2015 10:56:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.13**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755234 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM440
Installation Date: 2/3/2015 12:06:00PM
Retrieval Date: 2/17/2015 10:08:00AM Date Analyzed: 2/25/2015 10:56:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755235 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM450
Installation Date: 2/3/2015 12:22:00PM
Retrieval Date: 2/17/2015 10:22:00AM Date Analyzed: 2/25/2015 10:26:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.05**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755235 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM450
Installation Date: 2/3/2015 12:22:00PM
Retrieval Date: 2/17/2015 10:22:00AM Date Analyzed: 2/25/2015 10:26:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755236 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM460
Installation Date: 2/3/2015 12:33:00PM
Retrieval Date: 2/17/2015 10:35:00AM Date Analyzed: 2/25/2015 3:43:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.09**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

AMPLIFIED GEOCHEMICAL IMAGING, LLC
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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755236 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM460
Installation Date: 2/3/2015 12:33:00PM
Retrieval Date: 2/17/2015 10:35:00AM Date Analyzed: 2/25/2015 3:43:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755237 FIELD_SAMPLE
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: HSM470
Installation Date: 2/3/2015 12:45:00PM
Retrieval Date: 2/17/2015 10:47:00AM
Date Analyzed: 2/25/2015 8:21:00PM
Analyst: Kelly J Stringham
Method: SPG-WI-0292
Batch: ENV-150223-2
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.10**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755237 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM470
Installation Date: 2/3/2015 12:45:00PM
Retrieval Date: 2/17/2015 10:47:00AM Date Analyzed: 2/25/2015 8:21:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.54**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755238 TRIP_BLANK
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: TB02
Installation Date: 2/3/2015 9:11:00AM
Retrieval Date: 2/17/2015 12:24:00PM
Date Analyzed: 2/25/2015 11:28:00PM
Analyst: Kelly J Stringham
Method: SPG-WI-0292
Batch: ENV-150223-2
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	127-18-4	<0.02	0.02
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01315-2
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: February 2015 Sampling

FOR: SWCA Environmental

Houston, Texas 77040
USA

SAMPLER ID: 00755238 TRIP_BLANK Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: TB02
Installation Date: 2/3/2015 9:11:00AM
Retrieval Date: 2/17/2015 12:24:00PM Date Analyzed: 2/25/2015 11:28:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150223-2**
Reviewer: Fatima Niazi

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE 19702
SWCA ENVIRONMENTAL, HOUSTON, TX
STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
COMAL & SAN MARCOS RIVERS
ORDER # 01315-2

										estimated			
DATAFILE	FIELD	DATE/ TIME	DATE/ TIME	DATE/ TIME		DATE/ TIME							
NAME	ID	INSTALLED	RETRIEVED	RECEIVED		ANALYZED		DF	TPH, ug/L	MTBE, ug/L	t12DCE, ug/L	11DCA, ug/L
RL =									0.06	0.01	0.01	0.01
00755224	HCS410	2/3/2015	2/17/2015	2/18/2015	ET	2/25/2015	ET	1	0.06	<0.01	<0.01	<0.01
00755225	HCS420	2/3/2015	2/17/2015	2/18/2015	ET	2/25/2015	ET	1	0.06	<0.01	<0.01	<0.01
00755226	HCS430	2/3/2015	2/17/2015	2/18/2015	ET	2/25/2015	ET	1	0.08	<0.01	<0.01	<0.01
00755227	HCS440	2/3/2015	2/17/2015	2/18/2015	ET	2/25/2015	ET	1	0.06	<0.01	<0.01	<0.01
00755228	FDHCS440	2/3/2015	2/17/2015	2/18/2015	ET	2/25/2015	ET	1	0.06	<0.01	<0.01	<0.01
00755229	HCS460	2/3/2015	2/17/2015	2/18/2015	ET	2/25/2015	ET	1	<0.05	<0.01	<0.01	<0.01
00755230	HSM410	2/3/2015	2/17/2015	2/18/2015	ET	2/25/2015	ET	1	0.07	<0.01	<0.01	<0.01
00755231	HSM420	2/3/2015	2/17/2015	2/18/2015	ET	2/25/2015	ET	1	<0.06	<0.01	<0.01	<0.01
00755232	HSM430	2/3/2015	2/17/2015	2/18/2015	ET	2/25/2015	ET	1	0.08	<0.01	<0.01	<0.01
00755233	FDHSM430	2/3/2015	2/17/2015	2/18/2015	ET	2/25/2015	ET	1	0.07	<0.01	<0.01	<0.01
00755234	HSM440	2/3/2015	2/17/2015	2/18/2015	ET	2/25/2015	ET	1	<0.06	<0.01	<0.01	<0.01
00755235	HSM450	2/3/2015	2/17/2015	2/18/2015	ET	2/25/2015	ET	1	<0.06	<0.01	<0.01	<0.01
00755236	HSM460	2/3/2015	2/17/2015	2/18/2015	ET	2/25/2015	ET	1	<0.06	<0.01	<0.01	<0.01
00755237	HSM470	2/3/2015	2/17/2015	2/18/2015	ET	2/25/2015	ET	1	0.06	<0.01	<0.01	<0.01
00755238	TB02	2/3/2015	2/17/2015	2/18/2015	ET	2/25/2015	ET	1	<0.05	<0.01	<0.01	<0.01

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE 19702
SWCA ENVIRONMENTAL, HOUSTON, TX
STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
COMAL & SAN MARCOS RIVERS
ORDER # 01315-2

DATAFILE	FIELD									
NAME	ID	c12DCE, ug/L	CHCl3, ug/L	111TCA, ug/L	12DCA, ug/L	BENZ, ug/L	CCl4, ug/L	TCE, ug/L	112TCA, ug/L	TOL, ug/L
RL =		0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01
00755224	HCS410	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01
00755225	HCS420	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01
00755226	HCS430	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01
00755227	HCS440	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01
00755228	FDHCS440	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01
00755229	HCS460	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01
00755230	HSM410	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01
00755231	HSM420	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01
00755232	HSM430	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01
00755233	FDHSM430	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01
00755234	HSM440	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01
00755235	HSM450	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01
00755236	HSM460	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01
00755237	HSM470	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01
00755238	TB02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE 19702
SWCA ENVIRONMENTAL, HOUSTON, TX
STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
COMAL & SAN MARCOS RIVERS
ORDER # 01315-2

DATAFILE	FIELD								
NAME	ID	OCT, ug/L	PCE, ug/L	ClBENZ, ug/L	1112TetCA, ug/L	ETBENZ, ug/L	mpXYL, ug/L	oXYL, ug/L	1122TetCA, ug/L
RL =		0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
00755224	HCS410	<0.00	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00755225	HCS420	<0.00	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00755226	HCS430	<0.00	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00755227	HCS440	<0.00	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00755228	FDHCS440	<0.00	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00755229	HCS460	<0.00	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00755230	HSM410	<0.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00755231	HSM420	<0.00	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00755232	HSM430	<0.00	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00755233	FDHSM430	<0.00	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00755234	HSM440	<0.00	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00755235	HSM450	<0.00	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00755236	HSM460	<0.00	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00755237	HSM470	<0.00	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00755238	TB02	<0.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE 19702
SWCA ENVIRONMENTAL, HOUSTON, TX
STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
COMAL & SAN MARCOS RIVERS
ORDER # 01315-2

									estimated
DATAFILE	FIELD								
NAME	ID	135TMB, ug/L	124TMB, ug/L	13DCB, ug/L	14DCB, ug/L	12DCB, ug/L	UNDEC, ug/L	NAPH, ug/L	TRIDEC, ug/L
RL =		0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
00755224	HCS410	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00755225	HCS420	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00755226	HCS430	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00755227	HCS440	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00755228	FDHCS440	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00755229	HCS460	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00755230	HSM410	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00755231	HSM420	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00755232	HSM430	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00755233	FDHSM430	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00755234	HSM440	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00755235	HSM450	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00755236	HSM460	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00755237	HSM470	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00755238	TB02	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE 19702
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STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
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ORDER # 01315-2

			estimated	estimated	estimated	estimated
DATAFILE	FIELD					
NAME	ID	2MeNAPH, ug/L	Acenaphthylene, ug/L	PENTADEC, ug/L	Acenaphthene, ug/L	Fluorene, ug/L
RL =		0.01	0.01	0.02	0.01	0.01
00755224	HCS410	<0.01	<0.01	<0.02	<0.01	<0.01
00755225	HCS420	<0.01	<0.01	<0.02	<0.01	<0.01
00755226	HCS430	<0.01	<0.01	<0.02	<0.01	<0.01
00755227	HCS440	<0.01	<0.01	<0.02	<0.01	<0.01
00755228	FDHCS440	<0.01	<0.01	<0.02	<0.01	<0.01
00755229	HCS460	<0.01	<0.01	<0.02	<0.01	<0.01
00755230	HSM410	<0.01	<0.02	<0.02	<0.02	<0.02
00755231	HSM420	<0.01	<0.02	<0.02	<0.02	<0.02
00755232	HSM430	<0.01	<0.02	<0.02	<0.02	<0.02
00755233	FDHSM430	<0.01	<0.02	<0.02	<0.02	<0.02
00755234	HSM440	<0.01	<0.02	<0.02	<0.02	<0.02
00755235	HSM450	<0.01	<0.02	<0.02	<0.02	<0.02
00755236	HSM460	<0.01	<0.02	<0.02	<0.02	<0.02
00755237	HSM470	<0.01	<0.02	<0.02	<0.02	<0.02
00755238	TB02	<0.01	<0.01	<0.02	<0.01	<0.01

KEY TO DATA TABLE

UNITS

µg	micrograms, relative mass value
µg/m^3	micrograms per cubic meter; estimated soil gas concentration
µg/L	micrograms per Liter; calculated water concentration

DATA QUALIFIERS

>	greater than; value exceeds calibration range, estimated value
<	less than; compound value is below the LOD and RL
J	mass value below LOQ or RL, but above LOD, estimated mass value
E	mass value exceeds upper calibration level, estimated mass value
Q	one or more quality control parameters failed for the compound

ABBREVIATIONS

AVG RL	average reporting limit; calculated based on individual field sample RLs
LOD	limit of detection
LOQ	limit of quantification
MDL	method detection limit
RL	reporting limit

1112TetCA	1,1,1,2-tetrachloroethane
111TCA	1,1,1-trichloroethane
1122TetCA	1,1,2,2-tetrachloroethane
112TCA	1,1,2-trichloroethane
11DCA	1,1-dichloroethane
11DCE	1,1-dichloroethene
124TMB	1,2,4-trimethylbenzene
12DCA	1,2-dichloroethane
12DCB	1,2-dichlorobenzene
135TMB	1,3,5-trimethylbenzene
13DCB	1,3-dichlorobenzene
14DCB	1,4-dichlorobenzene
2MeNAPH	2-methyl naphthalene
BENZ	benzene
BTEX	combined masses of benzene, toluene, ethylbenzene, and total xylenes (Gasoline Range Aromatics)
C11,C13&C15	combined masses of undecane, tridecane, and pentadecane (C11+C13+C15) (Diesel Range Alkanes)
c12DCE	cis-1,2-dichloroethene
CCl4	carbon tetrachloride
CHC13	chloroform
ClBENZ	chlorobenzene
ct12DCE	cis- & trans-1,2-dichloroethene
EtBENZ	ethylbenzene
mpXYL	m-, p-xylene
MTBE	methyl t-butyl ether
NAPH	naphthalene
OCT	octane
oXYL	o-xylene
PCE	tetrachloroethene
PENTADEC	pentadecane
PHEN	phenanthrene
t12DCE	trans-1,2-dichloroethene
TCE	trichloroethene
TMBs	combined masses of 1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene
TOL	toluene
TPH	total petroleum hydrocarbons
TRIDEC	tridecane
UNDEC	undecane
VC	vinyl chloride

SUMMARY OF SAMPLING RATE CALIBRATION FOR AGI UNIVERSAL SAMPLER IN AQUEOUS PHASES

PURPOSE:

The purpose of this document is to:

1. Summarize the test protocol,
2. Summarize the methodology for analysis of data,
3. Present general results for generating concentration calibration

of the AGI Universal Sampler, part number SPG-0008, in aqueous phase media following AGI's "Standard Practice for Determining the Sampling Rate of Passive Diffusion Samplers in Various Environmental Media": SPG-SOP-0493. The work will be summarized in three parts: Part 1: shallow water, Part 2: deep water, and Part 3: sediment.

Principle of Operation of the AGI Samper

The AGI Universal Sampler is designed with solid adsorbents enclosed inside a tubular microporous PTFE membrane. When placed in water, the pores and hydrophobic nature of the PTFE keep liquid water from entering the membrane until a water head of about 34 feet is reached. The membrane will not keep water vapor from entering but the adsorbents are very hydrophobic and through testing validated to be unaffected by this moisture vapor. In shallow water, <34', volatile and semi-volatile compounds will partition from the dissolved water into the air phase in the PTFE membrane according to Henry's Law. This partitioning is instantaneous and within seconds-minutes, the compound is adsorbed by the adsorbent inside the sealed tube. Because the diffusivity in air is about 10,000 times higher than the diffusivity in water, the sampling rate is controlled by the water contact area of the membrane that allows the Henry's Law effect to occur. This contact area is set by the membrane diameter and length of the sealed tube, which is fixed in AGI's manufacturing process.

Henry's law as well as diffusivity, which are fundamentally incorporated into the sampling rate, are affected by temperature, T, and follow an Arrhenius equation $H_T = Hr \times \exp([-Ea/R](1/Tr - 1/T))$. Because a 5°C temperature change can make a 15% change in sampling rate, the temperature of the sampled water should be known to get the most precise concentration.

The membrane pore size is also small enough that colloidal particles and microbes can not pass through the membrane. This keeps the adsorbent from getting contaminated and eliminates any need to add preservative or chilling during storage or transportation.

When the water pressure exceeds the water entry pressure of the membrane, about 34 feet of water, the water becomes in contact with the solid adsorbent. Under this condition the compounds in the water will partition from the water into the solid. The partitioning coefficient, K_{AW}, can be approximated by the octanol-water coefficient, K_{OW}, but has been measured more precisely in the lab for AGI's specific solid adsorbent. The sampling rate is the product of the sampling rate at <34' of water and the K_{AW}.

In sediment, the sampler measures pore-water concentration, which is generally agreed to be the preferred measurement as it is more indicative of bioavailability. In sediment the volumetric availability of water to the sampler is reduced by the volume fraction solids in the sediment, which typically varies from zero to 35%, but can be has high at 73% in well packed and broad particle size distribution sediments. As a result, sampling rates in sediment are multiplied by the fraction pore water in the sediment to determine concentration.

PART 1: Calibration in shallow water

Part 1 summarizes the work in shallow water generating calibration data, evaluating the physical and chemical factors affecting the sampling rate, and measurement of the actual sampling rates or regression calibration equations needed to determine concentrations.

Sample Generation in water

In this calibration work, solutions of analytes at known concentrations were formulated in clean 4 liter smoked glass jugs by injecting microliter measured amounts of environmental standards using a calibrated syringe into pure or deionized water and stirring for a minimum of 2 hours but generally overnight. Headspace in the jugs was minimized and generally less than 1% by volume during the tests. Jugs were temperature controlled by placing them in a water filled cooler, chilled via a cooper tubing loop in the cooler. Temperature was measured with a certified digital temperature gauge and an average value used for each temperature experiment.

AGI samplers were weighted so they won't float and placed in the jugs at time zero. They were removed at various intervals to generate samples along with duplicates that showed mass increasing with exposure time. The sampler exposure time was selected to span minutes to hours and was generally reduced for high concentration tests to maintain uptake with time in roughly the linear dynamic range. Samplers were removed and dried with a paper towel and returned to their original container for analysis. They were analyzed by AGI's 8260C (SPG-WI-318 or SPG-WI-10028) method in duplicate, which is based on EPA SW846 Method 8260C.

Water samples were also taken and measured at an outside accredited lab using EPA SW846 Method 8260B. The concentrations agreed well with the calculated concentrations based on the standard certification, jug volume, and syringe injection. The variability of the outside lab 8260B values were found to be high, so for the sampling rate calculations we used the concentrations based on syringe dosing.

Calibrations were run at five concentrations, nominally at 6, 24, 118, 590, 1420 ug/L and five temperatures nominally at 5, 10, 15, 20, and 25 degrees centigrade. Samples were taken at 4 different exposure times. Samples were run in duplicate. A total of 176 data points were generated using 28 compounds from AGI's standard compounds list. Tridecane and pentadecane were not evaluated due to their very low solubility in water. In addition, another 23 compounds were tested using an 8260 liquid standard at nominal concentrations of 0.5, 1.0, 5.0, 15, 95, and 470 ug/L at a temperature typical of groundwater, 15°C. This is a living calibration and as additional data are generated, they may be qualified and added to this data set to improve the precision of the sampling rate calibration and broaden the compound list.

Key Variable Effects

As expected from theory, at short to moderate exposure times, mass will increase roughly linearly proportional to exposure time, as well as proportional to concentration, and exponentially with temperature following Arrhenius law. Temperature affects the Henry's law as well as diffusivity in water. Sampling rate is generally independent of concentration and time at mass values significantly below saturation. In the following sections we have characterized the sampling rate for each compound as affected by temperature and also developed calibrations using regression which account for the minor impact of time, and mass.

Concentration using Simple Sampling Rate Determination

A simple way to determine concentration is to measure mass on the AGI sampler, divide by exposure time, and divide by sampling rate, SR.

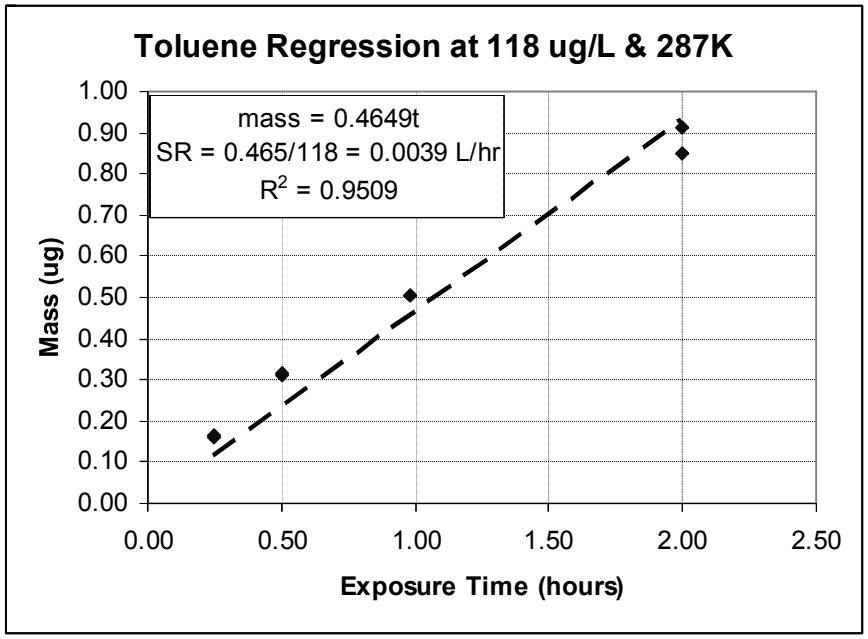
Conc [ug/L] = mass/time/SR (1)

The sampling rate can be determined via measurements of mass versus time at a known concentration and temperature according to the following modification of equation (1).

SR = mass/time/concentration (2)

Sampling rates in L/hr were determined by measuring the trend or regression mass uptake versus time and dividing by the concentration. A measurement like this will use 8 data points (4 times x 2 samples). Such a sampling rate can be measured at any concentration and temperature.

The chart to the right shows a plot of mass versus time for water at 118 ug/L and 287K. This is actual data from a single run. Slope of 0.465 ug/hr divided by the concentration of 118 ug/L yields a sampling rate, SR, of 0.0039 L/hr.



SR's typically range from about 0.004 to 0.007 L/hr at 15°C. Table A shows SR's measured for our standard compound list at 5 temperatures.

Rigorous Concentration using Regression

A preferred method for determining concentration that will yield improved accuracy over a wide range of concentrations, exposure times, and temperatures is to use all data in a regression analysis. This allows adjustments for the minor non-linear influences of mass and time as well as the effects of temperature. This is done by regressing equation (1) or a universal version of equation (1)

$$Conc = (mass)^{b} / (time)^{-d} / [-SRo*exp(-Ea/R/T)] \quad (3)$$

The subtle non-linear effects of mass and time will be evident in the deviation of coefficients b and d from 1.0. This regression generates four constants b, d, SRo, and –Ea/R by regressing ln(conc) versus ln(mass), ln(time), 1/temp. These four constants can be used to determine concentration via the equation:

$$Conc = (mass)^{b} / (time)^{-d} / [-SRo \times exp(-Ea/R(1/T))] \quad (4)$$

Where conc is in ug/L, mass is in ug, time in hours, T in degrees Kelvin.

Equation (4) an be also expressed at a reference temperature, Tr, such as 15°C by

$$Conc = (mass)^{b} / (time)^{-d} / [-SRr \times exp(-Ea/R(1/Tr-1/T))] \quad (5)$$

This allows sampling rates, SRr, at any reference temperature, Tr, and for any analyte to easily be compared. These values of SRr at 293.14K can be found in Table A.

When sampling times are between 0 and 4 hours, using the 4 constant equation (5) is preferred. For concentrations from about 5 to 1500 ug/L one hour exposure times generally give the lowest error, typically with average error of 6-20% and with total error range of 12%-32%. For low concentrations where sampling times are greater than 4 hours, it is preferred to use equation (1) to avoid unrealistic effects from the coefficient d or to set d to 1.0. In such a case SR in equation (1) can be substituted with [SRr x exp(-Ea/R(1/Tr-1/T))] to use an SR representative of the well temperature, T.

The chart to the right is a plot of the calculated concentration from the 4 constant regression compared to the dosed concentration. Agreement is excellent for the 176 data points.

There does appear to be a slight high bias of 8.6% over the full range of this data, although it is well within acceptable limits of variability.

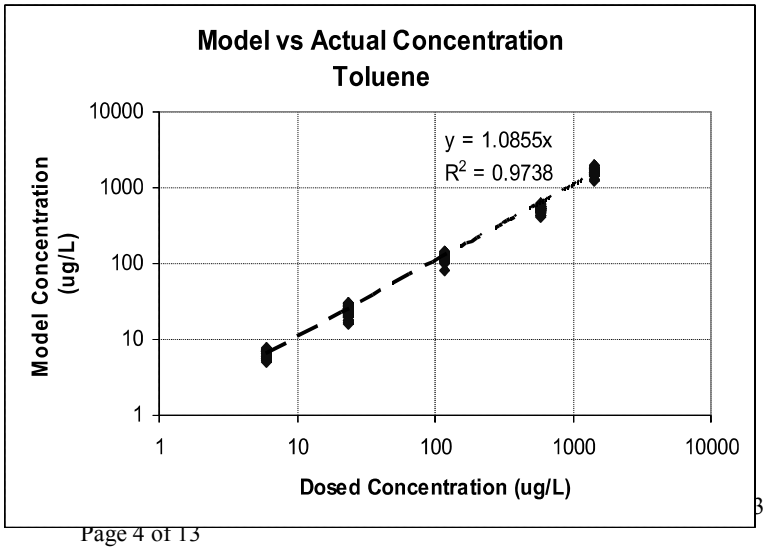


Table B shows the tabulated summary of the 4 constants regression with Rsq values and error estimates for the 4 constants for each analyte. Most regression Rsq values are 0.99 or greater for each analyte. In general, -Ea/R is about 2400+/-400, b is about 0.9, d is about -0.75, and SR(15°C) ranges from .004 L/hr to 0.007 L/hr increasing with MW of the compound.

Error Estimates

The error in the water concentration values will depend on both the error in mass from the analytical method as well as the error in the concentration calibration. Table C shows the error in the mass values from the 8260C low sensitivity method.

The standard error of the regression and standard errors of the constants can be found in table B. For each compound we have measured the error between the derived concentration and the actual concentration. The error tends to be lowest at our recommended exposure time of one hour as shown by the example for Toluene to the right.

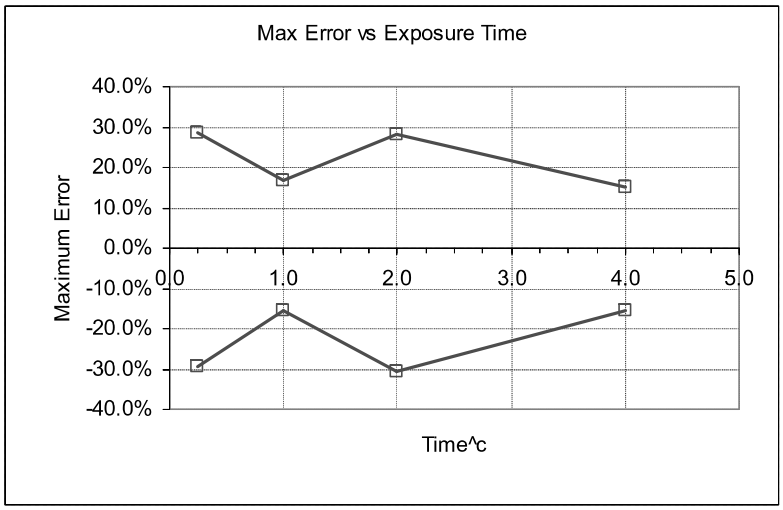
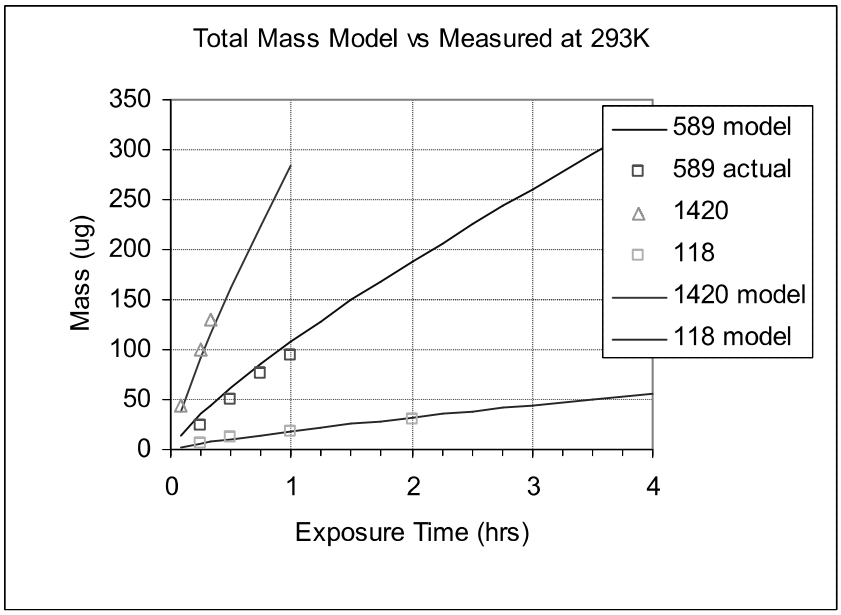


Table D shows the total average error in water concentration by compound as well as the low and high error. The average ranges from about 6% to 20%, which is similar to the analytical method errors. The low and high errors range from 12% to 32% and include contribution from measurement errors in both time and temperature.

Sorbent Saturation

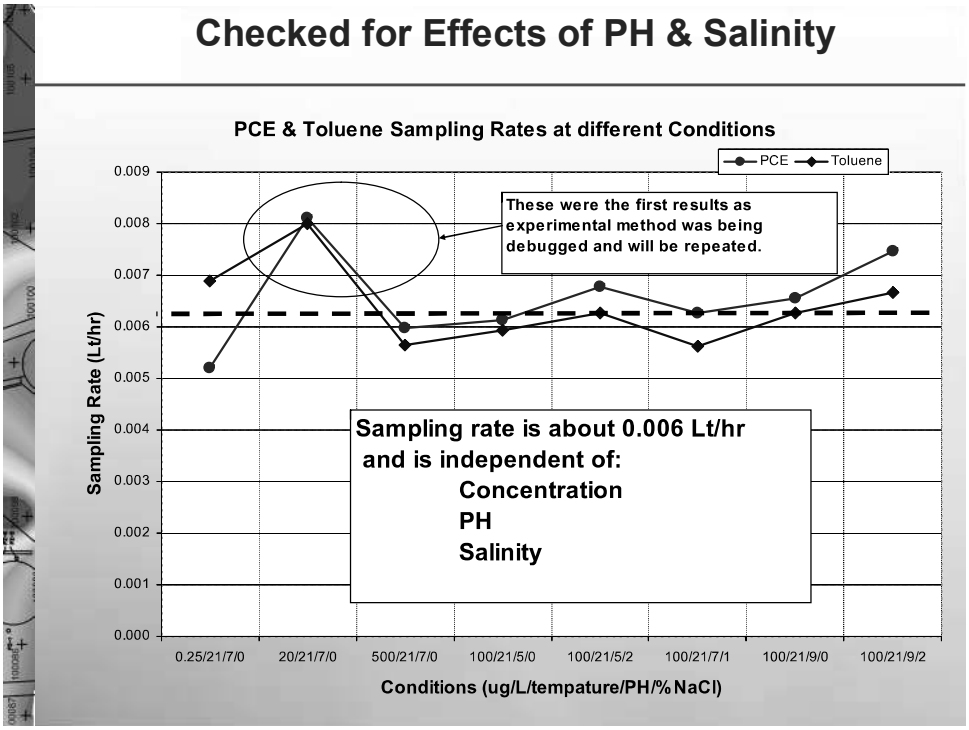
As mass increases on a solid sorbent and approaches saturation, reverse diffusion can occur causing the sampling rate to drop. Eventually the mass level will reach a maximum steady state value at any concentration. A rate of mass uptake with time that deviates significantly from linear, indicates that sorbent saturation could be an issue. When using equation (1), staying in the linear range to avoid the effects of adsorbent saturation is important. We recommend keeping the total mass on the sampler below 50 ug or flagging when this is exceeded.

The 4 constant regression accounts for some of the non linearity allowing good accuracy at higher mass levels. From the experimental data we have found this safe range can be extended to 100 ug or higher as shown in the chart below. This chart compares total mass of all compounds (excluding heavy alkanes, which have solubility issues) versus time in comparison to that predicted from the 4-constant concentration equation.



Effect of PH and Salinity

Because neither PH nor salinity is known to have a significant impact on Henry's law or diffusivity in water, we did not expect them to have a significant impact on sampling rate. To confirm this, experiments were run varying PH from 5 to 9 and NaCl content from 0 to 2%. The chart below shows no significant impact for combinations of PH and NaCl content over this range on the sampling rate of toluene in water at 21°C.

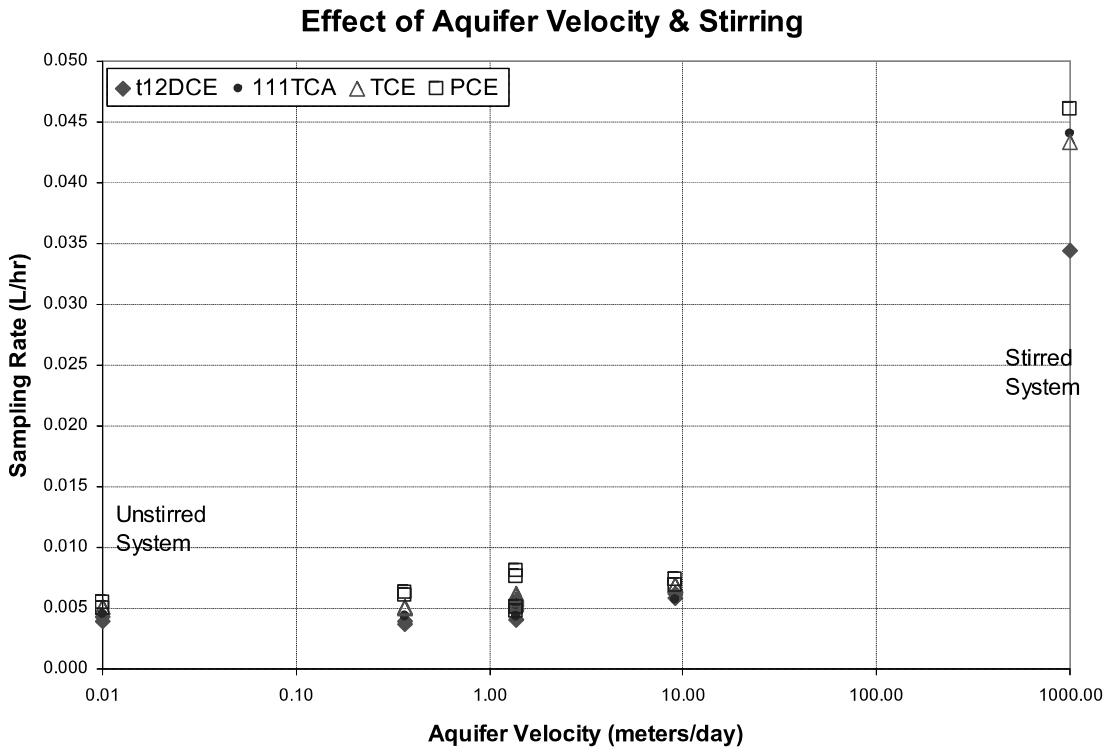


Impact of Aquifer Velocity

The velocity in most aquifers is quite slow, typically a meter/day or less. Occasionally water flow could be much higher such as encountered in karst aquifers, streams or rivers. Mass transfer coefficients are higher in high flow conditions, which will lead to higher sampling rates. We validated that a highly stirred system had sampling rates about 10 times higher than those that were non-stirred. We decided to evaluate the effect of aquifer velocity.

A test apparatus was built comprising a 3" PVC pipe tee filled with clean sand in each of the horizontal straight legs and screened to leave the center open. A test solution was run through this system using a variable flow pump and AGI samplers were placed into the simulated well through the vertical leg of the tee. Tests were run to examine the effect of velocity by varying the pumping rate and hence water velocity.

The chart below shows no significant effect of aquifer velocity up to a speed of about 10 meters/day. At velocities significantly above this, similar to a stirred system, sampling rates are about 10 times higher.

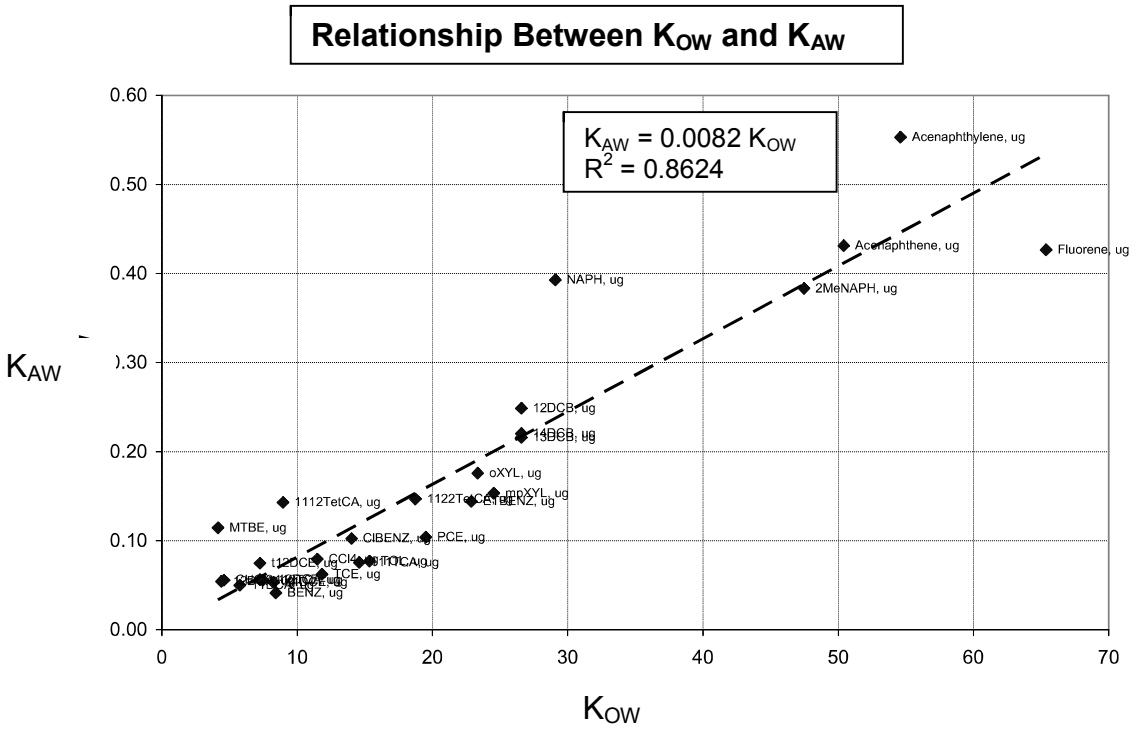


Part 2: Calibration in Deep (>34') water

Part 2 describes the effect of deep water on the AGI sampler and summarizes the effects on sampling rate and concentration measurement.

When the water pressure exceeds the water entry pressure of the membrane, about 34 feet of water, the water becomes in direct contact with the solid adsorbent. Under this condition the compounds in the water will partition from the water into the solid. The portioning coefficient is closely related to the octanol-water coefficient, K_{OW}, but has been measured more precisely in the lab for AGI's specific solid adsorbent, K_{AW}. The sampling rate for deep water is the product of the sampling rate at <34' of water and the K_{AW}.

Measurement of the K_{AW} was done in a one liter stainless steel vessel pressurized with nitrogen to simulate water heads above 34' of water. Pressures of up to 465 psig or 200' of water head were used. The sampling rate change was the same at all pressures above 34' of water. The K_{AW} was determined as the ratio between the mass or sampling rate above 34' of head to the rate at <34' of head and is shown in the chart below.



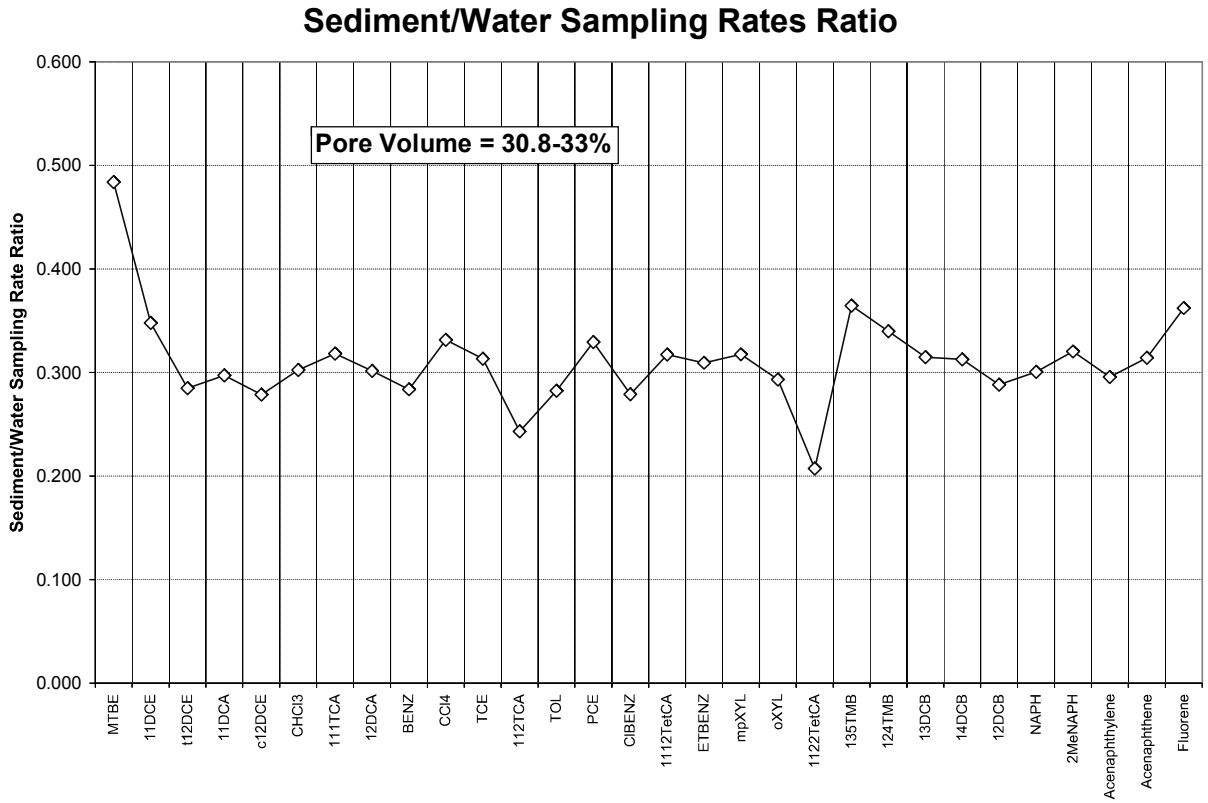
Part 3: Calibration in Sediment

Part 3 describes the effect of sediment solids or sediment pore volume on the sampling rate and concentration measurement.

In sediment, the sampler measures pore water concentration, which is generally agreed to be the preferred measurement as it is more indicative of bioavailability. In sediment the volumetric availability of water to the sampler is reduced by the volume fraction solids in the sediment. As a result sampling rates in sediment are multiplied by the fraction pore water to determine

concentration. Pore water fraction can range from 1.0 for water without sediment to as low as 0.25. Typically most sediments have pore fractions of 0.9 to 0.65.

A sampling rate study was done with water and with water added into a well-packed sorted sand. Pore water fraction in this test was measured between 30.8% 33% by volume. Below is a plot of the ratio of sampling rates measured in the sediment to open water. The average ratio is equal to the pore water fraction confirming that sampling rate in sediment is on average equal to the product of pore water fraction times the sampling rate in water.



Summary

The AGI® Sampler can be used to determine the concentration of volatile and semi-volatile compounds in a water phase. This requires knowing the exposure time and water temperature. It also requires knowing if the sample is above or below 34' of water head and if the water has a velocity above 10 meters/day. Regressions of large amounts of data were used to generate a four constant equation to generate concentration values in water. Potential error in the concentration values is excellent typically less than 25%.

TABLE A
WATER SAMPLING RATES STANDARD LIST

	SRr 293.14	SR @ 277.54	SR @ 282.44	SR @ 287.84	SR @ 293.24	SR @ 298.94
MTBE	0.0025	0.0014	0.0016	0.0018	0.0022	0.0029
t12DCE	0.0043	0.0028	0.0028	0.0027	0.0037	0.0048
11DCA	0.0047	0.0031	0.0033	0.0033	0.0039	0.0052
c12DCE	0.0046	0.0030	0.0031	0.0031	0.0038	0.0051
CHCl3	0.0046	0.0030	0.0031	0.0031	0.0038	0.0051
111TCA	0.0066	0.0043	0.0047	0.0047	0.0056	0.0076
12DCA	0.0045	0.0029	0.0029	0.0030	0.0036	0.0050
BENZ	0.0050	0.0031	0.0034	0.0035	0.0042	0.0056
CCl4	0.0068	0.0044	0.0048	0.0047	0.0058	0.0080
TCE	0.0052	0.0030	0.0034	0.0034	0.0043	0.0058
112TCA	0.0043	0.0027	0.0027	0.0028	0.0034	0.0048
TOL	0.0056	0.0034	0.0039	0.0039	0.0047	0.0062
OCT	0.0064	0.0046	0.0050	0.0040	0.0058	0.0089
PCE	0.0061	0.0036	0.0043	0.0043	0.0051	0.0069
ClBENZ	0.0054	0.0033	0.0039	0.0040	0.0045	0.0059
1112TetCA	0.0061	0.0037	0.0042	0.0044	0.0050	0.0065
EtBENZ	0.0060	0.0037	0.0045	0.0044	0.0052	0.0069
mpXYL	0.0064	0.0039	0.0048	0.0046	0.0055	0.0072
oXYL	0.0066	0.0041	0.0050	0.0048	0.0057	0.0074
1122TetCA	0.0044	0.0027	0.0029	0.0031	0.0036	0.0046
135TMB	0.0079	0.0046	0.0059	0.0056	0.0071	0.0093
124TMB	0.0078	0.0046	0.0060	0.0055	0.0071	0.0092
13DCB	0.0072	0.0041	0.0055	0.0053	0.0063	0.0080
14DCB	0.0071	0.0040	0.0054	0.0052	0.0062	0.0079
12DCB	0.0070	0.0040	0.0053	0.0051	0.0060	0.0076
UNDEC		0.0026	0.0024	0.0020	0.0031	0.0029
NAPH		0.0041	0.0056	0.0054	0.0064	0.0081
TRIDEC						
2MeNAPH		0.0043	0.0066	0.0066	0.0080	0.0108
PENTADEC						
Total mass	0.1177	0.0822	0.1339	0.1334	0.1773	0.1981

Values in L/hr

Total mass does not include UNDEC, TRIDEC, PENTADEC (28 compounds)

TABLE B
4 CONSTANT REGRESSION OUTPUT

	Adjusted Rsq	Standard Error	ln(SR0)	b	-Ea/R	d	Std Error ln(SR0)	Std Error b	Std Error -Ea/R	Std Error d
MTBE	0.997	0.0960	-3.217	0.981	2704	-0.709	0.2881	0.0062	83	0.0082
t12DCE	0.992	0.1659	-1.877	0.905	2147	-0.760	0.4971	0.0100	144	0.0138
11DCA	0.995	0.1272	-1.346	0.916	1965	-0.746	0.3809	0.0077	110	0.0106
c12DCE	0.995	0.1299	-1.905	0.911	2137	-0.751	0.3892	0.0078	112	0.0109
CHCl3	0.996	0.1260	-1.841	0.912	2118	-0.748	0.3776	0.0076	109	0.0105
111TCA	0.995	0.1279	-2.684	0.902	2259	-0.761	0.3836	0.0076	111	0.0106
12DCA	0.995	0.1263	-2.161	0.908	2218	-0.746	0.3786	0.0076	109	0.0106
BENZ	0.995	0.1323	-2.207	0.920	2198	-0.754	0.3965	0.0080	114	0.0110
CCl4	0.994	0.1405	-3.121	0.889	2379	-0.776	0.4220	0.0083	122	0.0116
TCE	0.992	0.1655	-3.338	0.900	2522	-0.772	0.4969	0.0099	144	0.0137
112TCA	0.995	0.1264	-2.412	0.896	2302	-0.724	0.3790	0.0075	109	0.0107
TOL	0.994	0.1426	-2.873	0.916	2364	-0.756	0.4281	0.0087	124	0.0119
OCT	0.938	0.4698	-5.984	0.822	3235	-0.827	1.4231	0.0277	412	0.0388
PCE	0.991	0.1773	-3.780	0.877	2601	-0.775	0.5329	0.0103	154	0.0147
ClBENZ	0.994	0.1457	-2.601	0.911	2292	-0.747	0.4370	0.0088	126	0.0122
1112TetCA	0.996	0.1235	-2.676	0.898	2281	-0.725	0.3705	0.0073	107	0.0104
EtBENZ	0.993	0.1597	-2.930	0.918	2357	-0.752	0.4794	0.0097	138	0.0134
mpXYL	0.992	0.1678	-3.036	0.909	2372	-0.749	0.5037	0.0101	145	0.0140
oXYL	0.993	0.1555	-2.862	0.911	2312	-0.740	0.4667	0.0094	135	0.0131
1122TetCA	0.996	0.1118	-1.971	0.913	2167	-0.691	0.3351	0.0067	97	0.0096
135TMB	0.988	0.2024	-4.435	0.897	2720	-0.738	0.6093	0.0121	176	0.0170
124TMB	0.989	0.1997	-4.126	0.890	2631	-0.731	0.6009	0.0118	173	0.0169
13DCB	0.991	0.1832	-3.422	0.888	2449	-0.730	0.5503	0.0108	159	0.0155
14DCB	0.991	0.1802	-3.263	0.892	2408	-0.724	0.5413	0.0107	156	0.0153
12DCB	0.992	0.1697	-2.970	0.894	2327	-0.716	0.5092	0.0101	147	0.0144
UNDEC	0.694	0.374	-1.406	0.426	1708	-0.806	1.792	.00.028	517	0.053
NAPH	0.992	0.166	-3.374	0.915	2430	-0.671	0.497	0.010	144	0.014
TRIDEC										
2MeNAPH	0.984	0.238	-5.498	0.869	2990	-0.689	0.72	0.014	208	0.021
PENTADEC										
Total mass	0.993	0.1543	-6.111	0.907	2419	-0.732	0.4666	0.0093	134	0.0130

TABLE C
8260C MASS UNCERTAINTY

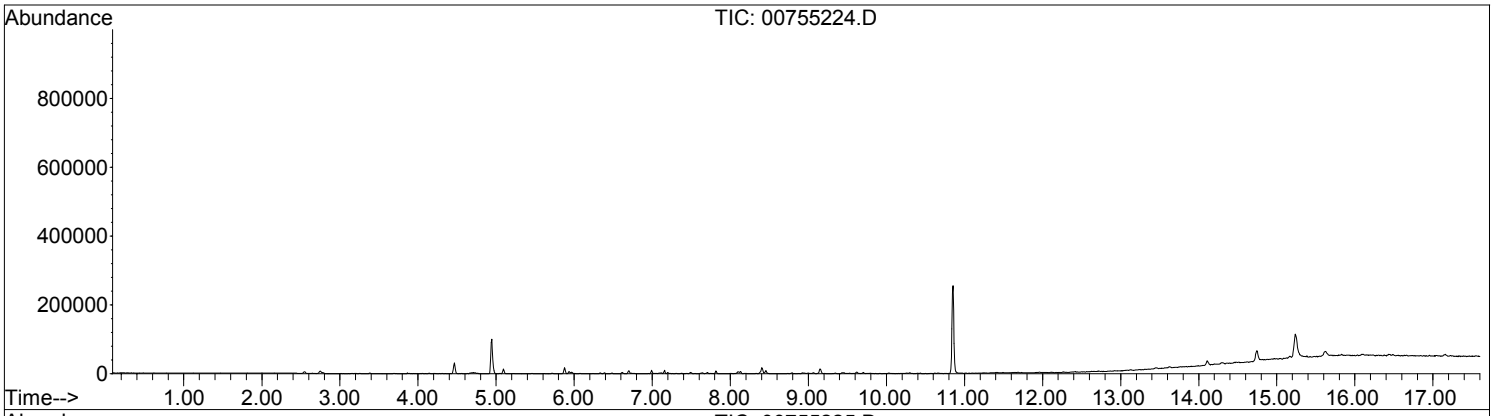
AGI 8260C Method for Mass using SPG-0008 Samplers

	99% Uncertainty Range +/-	95% Uncertainty Range +/-
MTBE	20%	14%
t12DCE	22%	15%
11DCA	18%	12%
c12DCE	18%	12%
CHCl3	16%	11%
111TCA	18%	12%
12DCA	20%	13%
BENZ	16%	10%
CCl4	19%	12%
TCE	15%	10%
112TCA	18%	12%
TOL	15%	10%
OCT	20%	13%
PCE	16%	11%
ClBENZ	18%	12%
1112TetCA	19%	13%
EtBENZ	18%	12%
mpXYL	18%	12%
oXYL	18%	12%
1122TetCA	23%	15%
135TMB	21%	14%
124TMB	20%	14%
13DCB	19%	13%
14DCB	19%	13%
12DCB	20%	14%
NAPH	21%	14%
2MeNAPH	25%	17%

TABLE D
4 CONSTANT WATER CONCENTRATION UNCERTAINTY

ERROR IN CONCENTRATION REPORTING (1)

	Average Error	Minimum Error	Maximum Error
MTBE	6%	-12%	12%
t12DCE	11%	-26%	21%
11DCA	8%	-19%	13%
c12DCE	9%	-19%	15%
CHCl3	9%	-20%	14%
111TCA	9%	-19%	23%
12DCA	10%	-19%	17%
BENZ	8%	-18%	13%
CCl4	10%	-23%	22%
TCE	10%	-21%	14%
112TCA	11%	-21%	21%
TOL	7%	-17%	14%
OCT	20%	-41%	42%
PCE	10%	-24%	15%
ClBENZ	7%	-16%	14%
1112TetCA	8%	-17%	18%
EtBENZ	6%	-19%	14%
mpXYL	7%	-22%	13%
oXYL	7%	-19%	13%
1122TetCA	8%	-16%	17%
135TMB	9%	-23%	17%
124TMB	10%	-28%	19%
13DCB	10%	-22%	17%
14DCB	10%	-22%	17%
12DCB	9%	-23%	17%
NAPH	10%	-24%	21%
2MeNAPH	13%	-32%	30%
(1) For 1 hour exposure, includes error related to mass value from AGI analytical method 8260C			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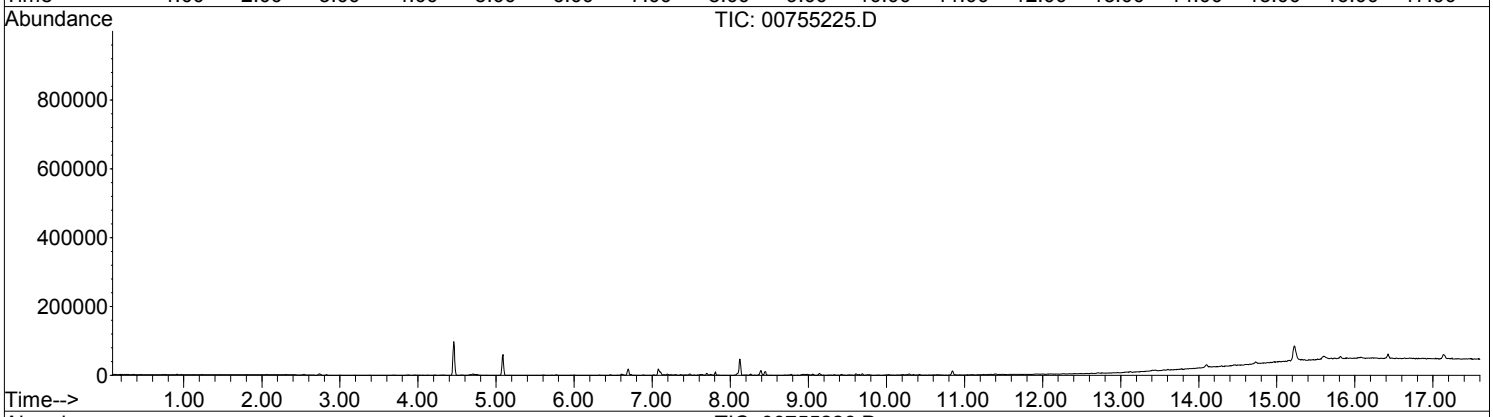
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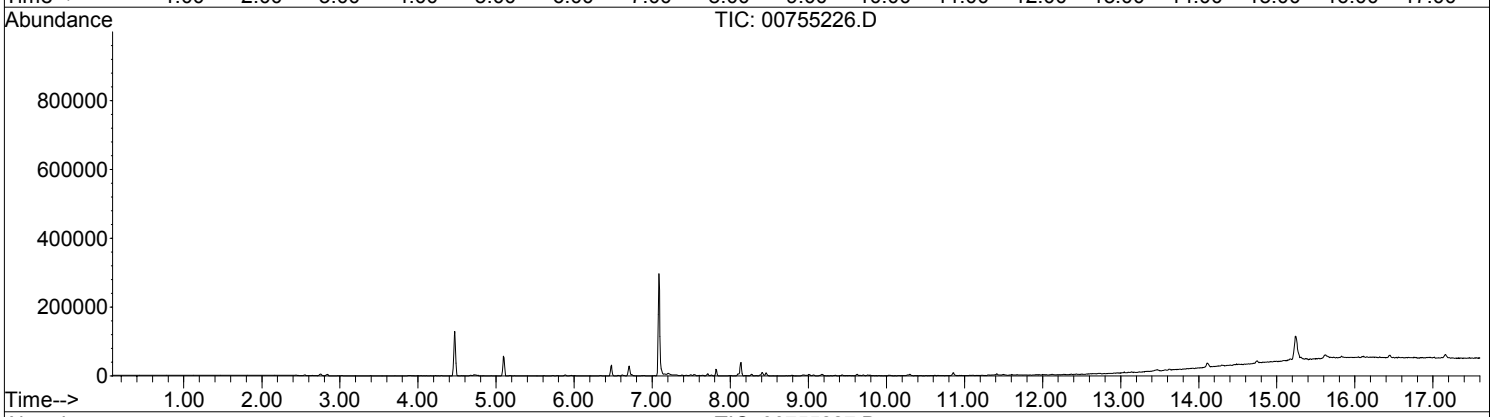
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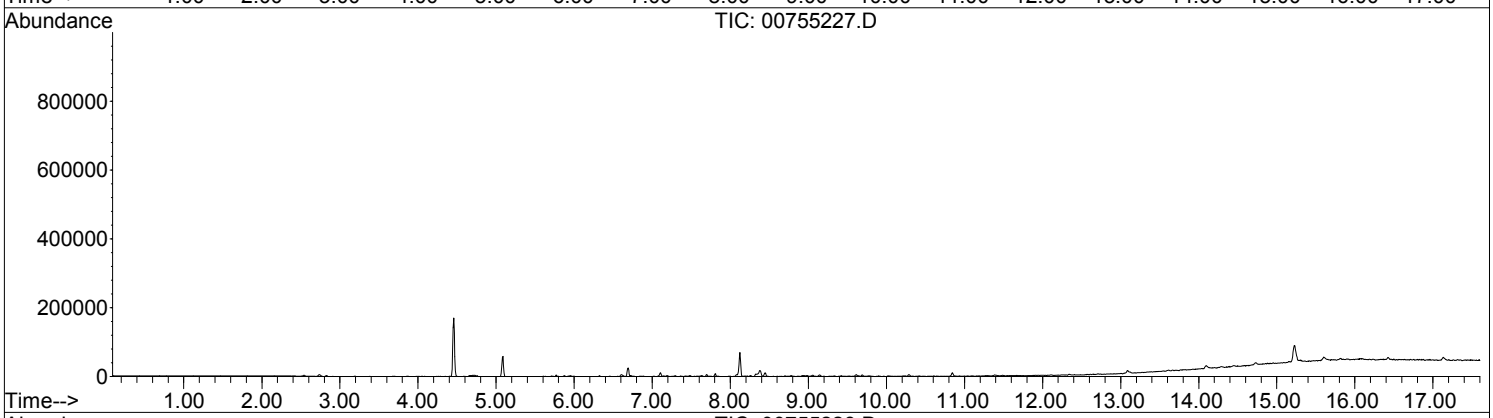
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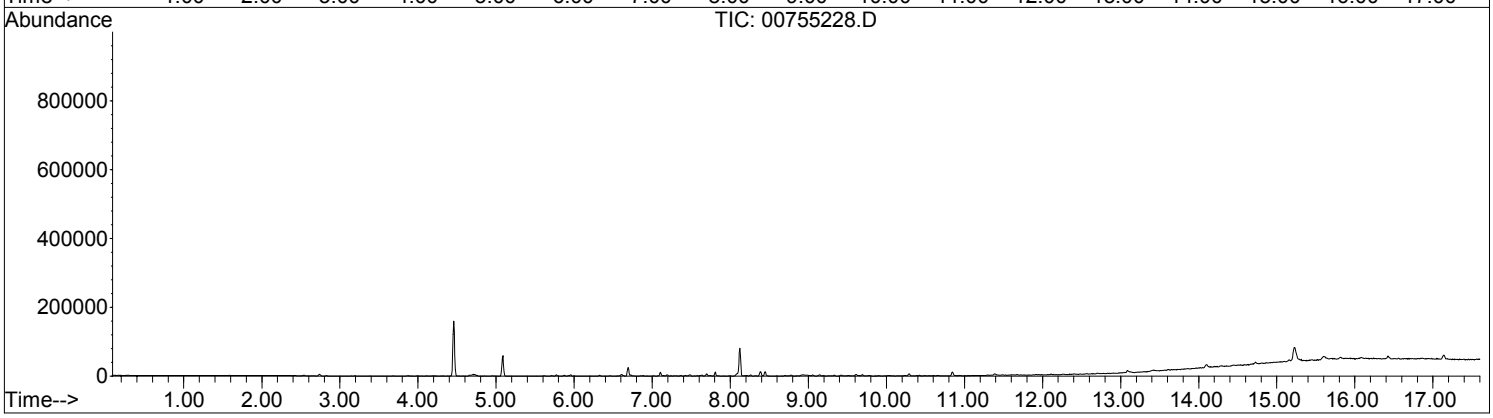
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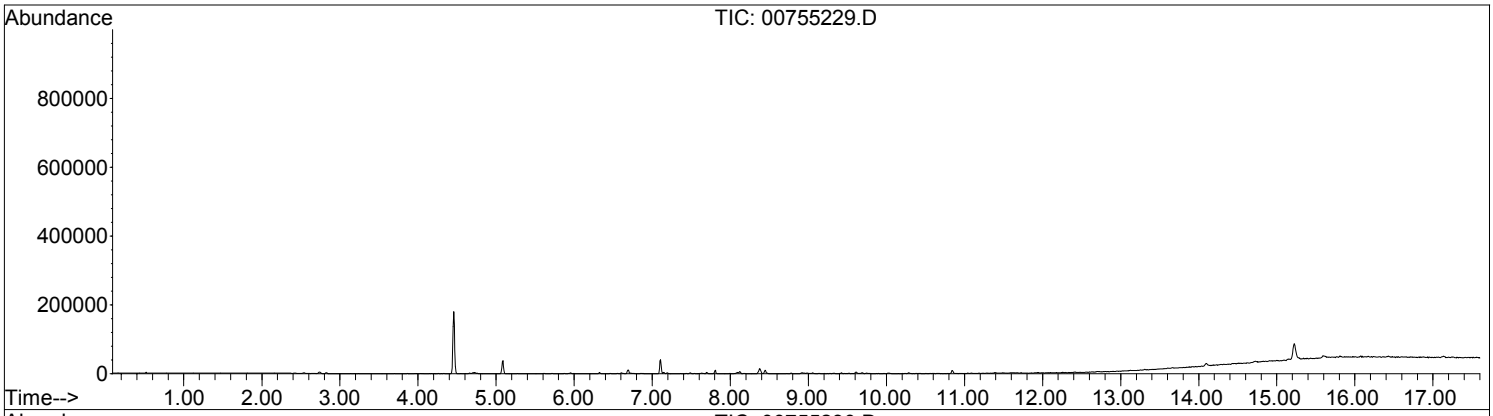
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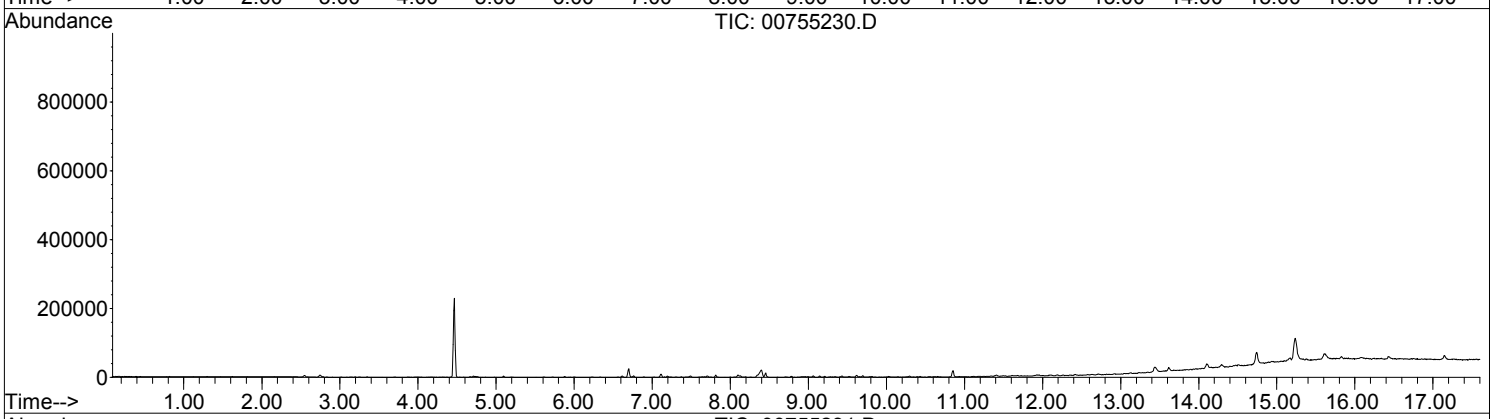
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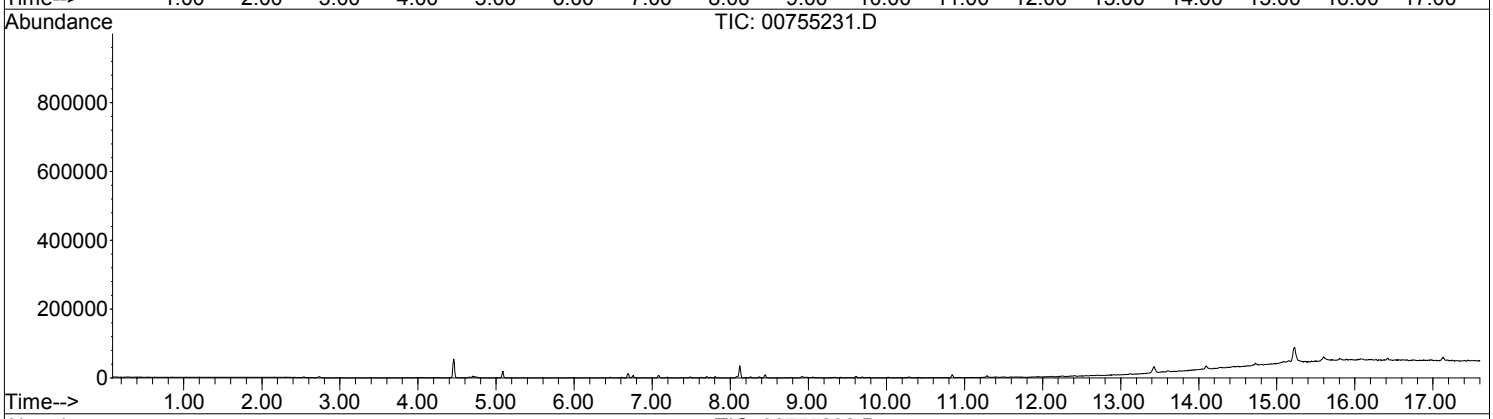
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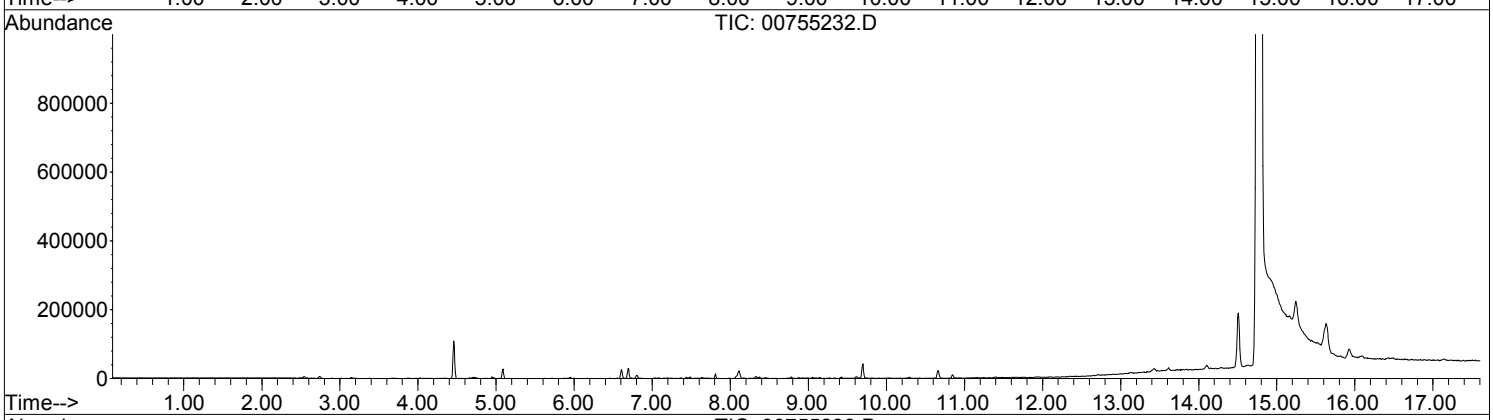
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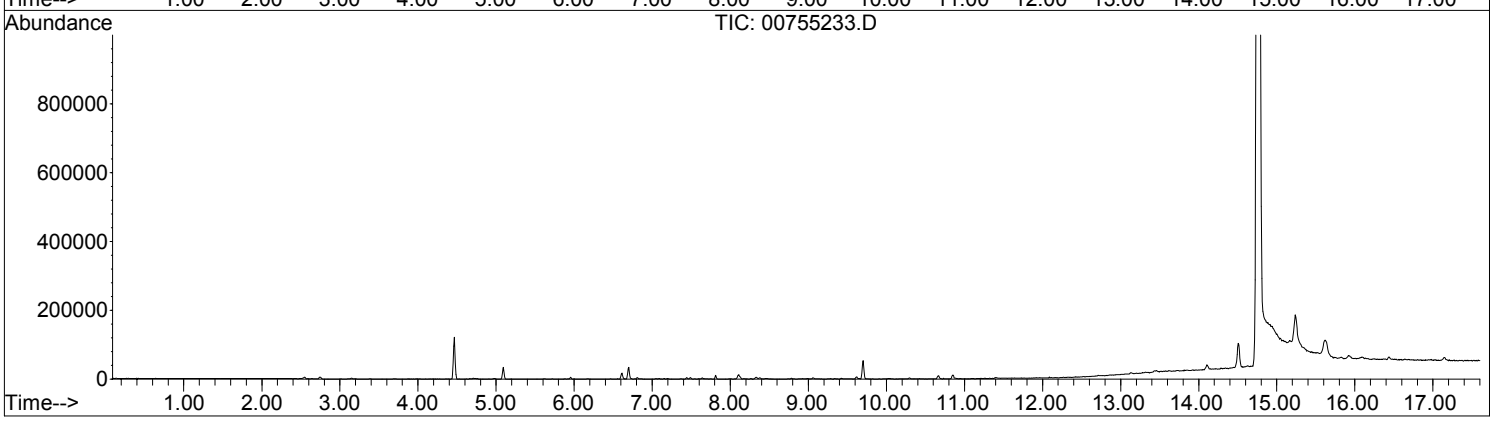
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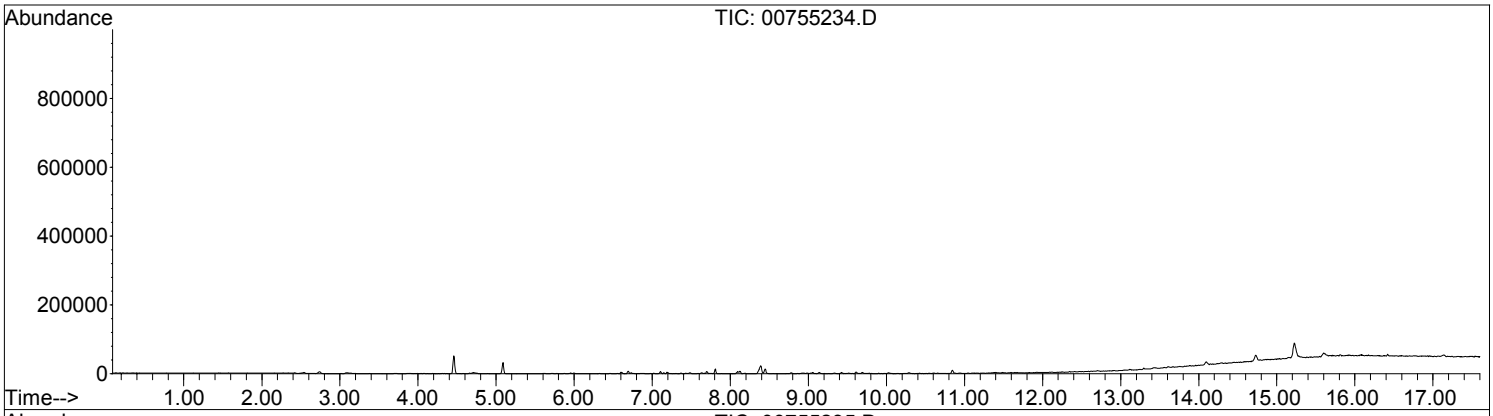
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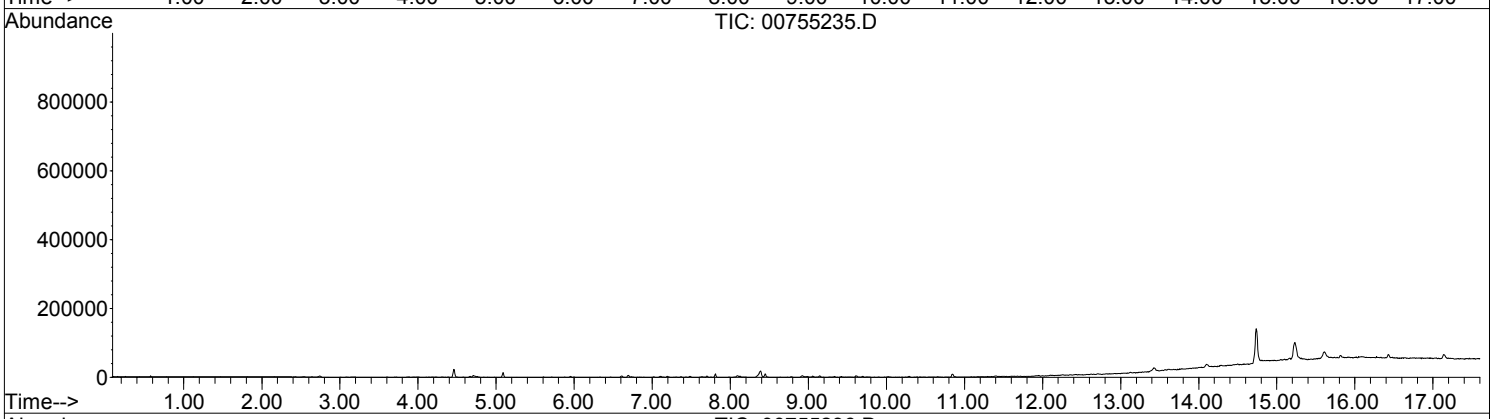
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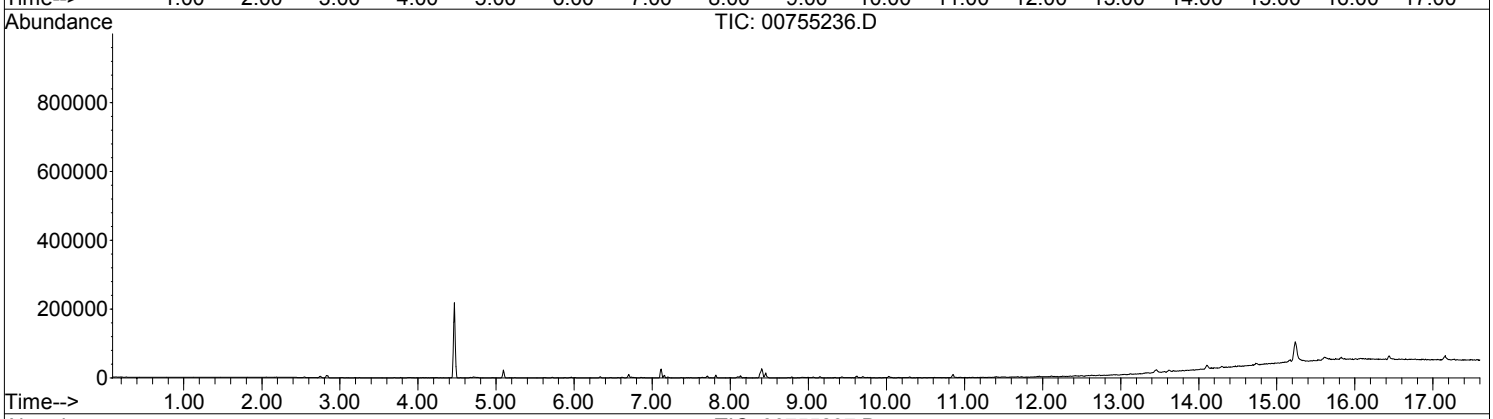
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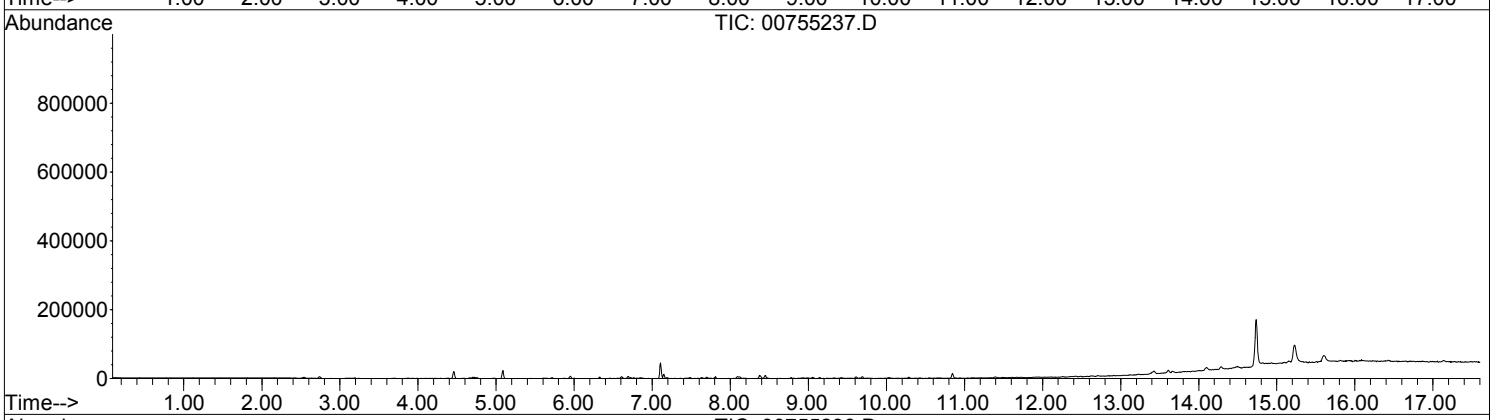
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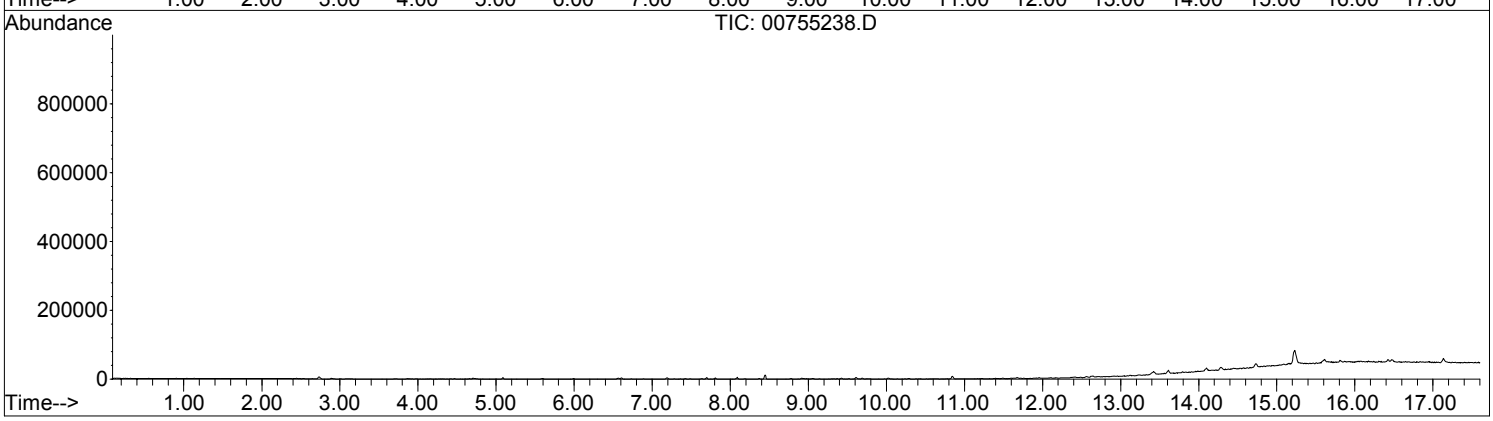
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AMPLIFIED GEOCHEMICAL IMAGING, LLC

Laboratory Report

Site: Comal and San Marcos Rivers

Prepared for:

SWCA Environmental Consultants
10245 Little York Road Suite 600
San Antonio, TX 77040
UNITED STATES

Prepared on:
May 08, 2015

Project Summary and Objective

Amplified Geochemical Imaging, LLC. (AGI) provided the AGI Environmental Survey used at:

Comal and San Marcos Rivers

The service provided by AGI included delivery of the required quantity of AGI Universal Samplers, analysis by the method described below for the requested organic compounds, reporting of the data, and contour mapping (as needed).

This report includes results for only the samples noted under the Laboratory Sample Report section. If contour maps are part of the project deliverable, the maps will be prepared and issued under a separate report cover, upon receipt of a usable sitemap (electronic) and compound choices for contouring.

Written/submitted by:

Jim E Whetzel

Project Manager

Reviewed/approved by:

Don D'Apolito

Project Manager

Analytical data approved by:

Jasmine Smith

Chemist

Quality Assurance Statement

The AGI Laboratory, at Amplified Geochemical Imaging's facility in Elkton, MD USA, operates under the guidelines of its ISO Standard 17025 DoD ELAP accreditation, and its Quality Assurance Manual, Operating Procedures, and Methods (SPG-SOP-0462).

For this project, the analytical method, results, and observations reported do [ ] do not [√] fall within the scope of AGI's ISO 17025 accreditation.

Screening/Concentration Method

The AGI Universal Samplers are analyzed at AGI's fixed laboratory using thermal desorption-gas chromatography/mass spectrometry (TD-GC/MS) instrumentation following U.S. EPA Method 8260 (SPG-WI-0292) which includes the following:

- **BFB Tuning Frequency:** A BFB tune is analyzed at the start of each analytical run and after every 30 samples.
- **Initial Calibration:** A minimum of a five point calibration curve is analyzed prior to the analysis of samples.
- **Linearity of Target Compounds:** If the RSD of any target analyte is less than or equal to 25% then average response factor can be used for quantitation. If the RSD exceeds 25% for a target compound a regression equation can be used for quantitation.
- **Continuing Calibration Verification:** After every 10 samples, and at the end of each analytical batch, and a second-source Reference Standard is analyzed near the mid point of the calibration curve. The acceptance criteria for all target analytes in the reference standards are +/- 50% of the true value.
- **Method Blank:** Analyzed prior to the analysis of field samples and every 30 samples.

Note: Analyte levels reported for the field-deployed AGI Universal Samplers that exceed trip and method blank levels, and/or the reporting limit, are more likely to have originated from on-site sources.

Media Sampled:	WATER
Chemist - sample analysis:	Kelly J Stringham
Chemist - data processor:	Kelly J Stringham
Chemist - data review:	Jasmine Smith

Method deviations: None.

Please note that data file names ending with R are rerun samples using the second pair of sorbers, in which the original results were not reported. Data file names ending in D are duplicate analysis results for the second set of sorbers from the same sampler, and are reported.

Additional Report Information

- Comments
- Laboratory Sample Report
- Chain of Custody
- Installation and Retrieval Log
- Analytical Results and Key
- Concentration Calculation Method Summary
- Total Ion Chromatograms

Project Specific Comments

None.

Survey period [1]	Samplers were installed on April 7, 2015 and retrieved on April 21, 2015 for an exposure period of 14 days.	
Tamper seal intact:	Yes	
Date received:	4/22/2015 10:25 AM	By: Darlene Yellowdy
COC returned:	Yes	
Comments:	None	

1 - Installation start to end of retrieval, as reported. See installation and retrieval log for individual deployment and retrieval dates and times (i.e., sampler exposure time).

General Comments

Analytical QA/QC

Laboratory instrumentation consists of gas chromatographs equipped with mass selective detectors, coupled with automated thermal desorption units. Sample preparation involves cutting the tip off the bottom of the AGI Universal Sampler, and transferring one or more "sorbers" to a thermal desorption tube for analysis. The insertion/retrieval cord prevents soil, water and other interferences from coming in contact with the adsorbent. No further sample preparation is required. Any replicate sorbers not consumed in the initial analysis will be discarded fifteen (15) days from the date of the laboratory report.

Data are archived and stored in a secure manner as per AGI's Quality Assurance program (SPG-SOP-0462).

Total petroleum hydrocarbons (TPH), gasoline-range petroleum hydrocarbons (GRPH), and/or diesel range petroleum hydrocarbons (DRPH), when reported, are calculated using the area under the peaks observed in m/z 55 and 57 selected ion chromatograms. Quantitation of the mass values was performed using the response factor for a specific alkane (present in the calibration standards). TPH values include the entire chromatogram and provide estimates for aliphatic hydrocarbon ranges of C4 to C20. GRPH and DRPH include only the relevant regions of the chromatograms and provide estimates for C4 to C10 and C10 to C20 aliphatic hydrocarbons, respectively.

Trip blanks were provided to document potential exposures that were not part of the signal of interest (e.g., impact during sampler shipment, installation and/or retrieval, and storage). The trip blanks are identically manufactured and packaged AGI Universal Samplers to those samplers deployed in the field . The trip blanks remain unopened during all phases of the project. Levels reported on the trip blanks may indicate potential impact to the samplers other than the contaminant source of interest.

Unresolved peak envelopes (UPEs) are represented as a series of compound peaks clustered together around a central gas chromatograph elution time in the total ion chromatogram. UPEs may be indicative of complex fluid mixtures. UPEs observed early in the chromatograms are considered to indicate presence of more volatile fluids, while UPEs observed later in the chromatogram may indicate the presence of less volatile fluids. Multiple UPEs may indicate the presence of multiple complex fluids.

Total ion chromatograms (TICs) are included in the Attachments. The eight-digit serial number of each sampler is incorporated in the TIC identification (e.g., 12345678.D represents AGI Universal Sampler 12345678).

General Comments

Soil Gas Sampling

For soil gas sampling, the AGI Environmental Survey reports mass levels migrating through the open pore spaces of the soil and diffusing through the sampler membrane for sorption by the engineered, hydrophobic adsorbents, housed within the membrane tube. During the migration of the soil gas away from the source to the AGI Universal Sampler, the vapors are subject to a variety of attenuation factors. The soil gas masses reported on the samplers compare favorably with the concentrations reported in the soil or groundwater (e.g., where soil gas levels are reported at greater levels to other sampled locations on the site, the matrix data should reveal the same pattern, and vice versa). However, due to a variety of factors, a perfect comparison between matrix data and soil gas levels can rarely be achieved.

Soil gas concentrations (µg/m3) are calculated following the method described in the Additional Report Information section.

Soil gas signals reported by this method cannot be correlated specifically to soil adsorbed, groundwater, and /or free-phase contamination. The soil gas signal reported from each AGI Universal Sampler can evolve from all of these sources. Differentiation between soil and groundwater contamination can only be achieved with prior knowledge of the site history (i.e., the site is known to have groundwater contamination only).

Air Sampling

For indoor, outdoor, and crawlspace air sampling, the AGI Environmental Survey reports mass levels present in the air and diffusing through the sampler membrane for sorption by the engineered adsorbents housed within the membrane tube.

Air concentrations (µg/m3) are calculated following the method described in the Additional Report Information section.

Groundwater and Sediment Porewater Sampling

For groundwater and sediment porewater sampling, the AGI Environmental Survey reports the mass levels of compounds present in the water which, when coming in contact with the sampler membrane, partitions out of solution, and diffuses through the sampler membrane for sorption by the engineered adsorbents.

Water concentrations (µg/L) are calculated using the quantified mass, exposure period and the compound specific uptake rate. The rates were measured under controlled experimental conditions. The uptake rates are corrected for water pressure (depth of the AGI Universal Sampler below the water table), water temperature and the aquifer flow rate. For sediment porewater, the uptake rate is corrected for the reduced colume of water in the sediment, by multiplying the uptake rate by the pore water fraction.

LABORATORY SAMPLE REPORT

Project: ENV 01347 **Site Name: Comal and San Marcos Rivers** **Module Type: SPG0008**

Module ID	Sample Type	Field ID
00757309	FIELD_SAMPLE	HCS410
00757310	FIELD_SAMPLE	HCS420
00757311	FIELD_SAMPLE	HCS430
00757312	FIELD_SAMPLE	HCS440
00757313	FIELD_SAMPLE	FDHCS440
00757314	LOST	HCS460
00757315	FIELD_SAMPLE	HSM410
00757316	FIELD_SAMPLE	HSM420
00757317	FIELD_SAMPLE	HSM430
00757318	FIELD_SAMPLE	FDHSM430
00757319	FIELD_SAMPLE	HSM440
00757320	FIELD_SAMPLE	HSM450
00757321	FIELD_SAMPLE	HMS460
00757322	FIELD_SAMPLE	HSM470
00757323	TRIP_BLANK	TB05
00757324	FIELD_SAMPLE	Not Provided

Total # "FIELD SAMPLES"	Total # "TRIP BLANKS"	Total # "UNUSED"	Total # "LOST"
14	1	0	1

Duplicate samples: 0

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AGI Universal Passive Sampler Chain of Groundwater Sampling

Production Order #: 01347

Customer Name: SWCA Evnironmental Consultants
Address: 6200 UTSA Boulevard Suite 102

San Antonio, TX 78249
USA

Site Name: Comal and San Marcos Rivers
Site Address:

Project Manager:

Serial # of Samplers Shipped
00757309 - 00757324

00757314 lost in field, Kept vial in case we find it in the next day

# of Samplers for Installation	14.00	# of Trip Blanks	2
Total Samplers Shipped	16.00		Pieces
Total Samplers Received	16		Pieces
Total Samplers Installed	14		Pieces

Serial # of Trip Blanks (Client Decides)

00757324 gm		

Prepared By: Lisa Bozelle
Verified By:

Is Concurrent water sampling planned this monitoring period? YES (NO)
Scheduled Sampling Date:

Installation Performed By:
Name: Jennifer Moreland Brittany Rios
Company: SWCA

Installation Start Date / Time: 4/7/15 9:41
Installation Complete Date / Time 4/7/15 1302

Retrieval Performed By:
Name: Jennifer Moreland Brittany Rios
Company: SWCA

Retrieval Start Date / Time: 4/21/15 11:10
Retrieval Complete Date / Time 4/21/15 1523

Total Samplers Retrieved: 13
Total Samplers Lost In Field: 1
Total Unused Samplers Returned: #1 gm

Relinquished By	Lisa Bozelle	Date/Time 1:20 pm 3-24-15	**Received By:**		Date/Time 3/26/15 9:00AM
Company:	AGI		**Company:**	SWCA	
Relinquished By		Date/Time 4/21/15	**Received By:**	Darlene Galloway	Date/Time 4/22/15
Company:	SWCA	10:00	**Company:**	AGI	10:25

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AGI Project No. ENV 01077
Site Name: Comal & San Marco River
Site Location:

AGI Soil Gas Sampling
Installation & Retrieval Log

Company Name: SWCA Environmental
Location:
Samples collected by: Jennifer Moreland and Brittany Rios

*** Optional or as needed**

					WATER QUALITY MO		
SAMPLER SERIAL NO.	**WELL ID**	**SAMPLE TYPE (Field Sample, Trip Blank, Field Blank, etc.)**	**INSTALLATION DATE & TIME MM/DD/YYYY HH:MM (24 Hour) ex. 12/30/2000 13:00**	**RETRIEVAL DATE & TIME MM/DD/YYYY HH:MM (24 Hour) ex. 12/30/2000 15:00**	**INSTALLATION DEPTH FROM TOP OF CASING (feet)**	**DEPTH TO WATER FROM TOP OF CASING (feet)**	**SCREENED INTERVAL FROM TOP OF CASING (feet)**
00757309	HCS410	FIELD_SAMPLE	4/7/15 10:00	4/21/15 11:34	1.5		
00757310	HCS420	FIELD_SAMPLE	4/7/15 10:11	4/21/15 11:50	3		
00757311	HCS430	FIELD_SAMPLE	4/7/15 9:41	4/21/15 11:10	7		
00757312	HCS440	FIELD_SAMPLE	4/7/15 10:23	4/21/15 12:05	4		
00757313	FDHCS440	FIELD_DUPLICATE	4/7/15 10:23	4/21/15 12:05	4		
00757314	HCS460	FIELD_SAMPLE	4/7/15 10:33	4/21/2015 N/A	5		
00757315	HSM410	FIELD_SAMPLE	4/7/15 11:14	4/21/15 13:51	2		
00757316	HSM420	FIELD_SAMPLE	4/7/15 11:26	4/21/15 14:02	4		
00757317	HSM430	FIELD_SAMPLE	4/7/15 11:36	4/21/15 14:21	0.5		
00757318	FDHSM430	FIELD_DUPLICATE	4/7/15 11:36	4/21/15 14:21	0.5		
00757319	HSM440	FIELD_SAMPLE	4/7/15 11:49	4/21/15 14:35	5		
00757320	HSM450	FIELD_SAMPLE	4/7/15 12:31	4/21/15 14:52	4		
00757321	HMS460	FIELD_SAMPLE	4/7/15 12:50	4/21/15 15:11	3		
00757322	HSM470	FIELD_SAMPLE	4/7/15 13:02	4/21/15 15:23	1.5		
00757323	TB05	TRIP_BLANK	4/7/15 9:41	4/21/15 15:23	NA		

AGI Soil Gas Sampling
Installation & Retrieval L

*** Optional or as needed**

	ONITORING			YES / NO	
SAMPLER SERIAL NO.	**WATER TEMPERATURE AT MODULE DEPTH (deg C)**	**FLOW RATE THROUGH SCREEN: HIGH OR LOW (HIGH = flow > than 10 m/day; LOW = flow < 10 m/day)**	**OBSERVATIONS/COMMENTS* (e.g., observations, location description, missing, pulled from well, etc. - as needed)**	**EVIDENCE OF LIQUID PETROLEUM HYDROCARBONS?**	**ODOR ?**
00757309	23.3	High		No	No
00757310	23.3	High		No	No
00757311	23.3	High		No	No
00757312	23.3	High		No	No
00757313	23.3	High		No	No
00757314	23.3	High	Sampler was missing upon date of retrei	No	No
00757315	22.0	High		No	No
00757316	22.0	High		No	No
00757317	22.0	High		No	No
00757318	22.0	High		No	No
00757319	22.0	High		No	No
00757320	22.0	High		No	No
00757321	22.0	High		No	No
00757322	22.0	High		No	No
00757323				No	No

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757309 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS410
Installation Date: 4/7/2015 10:00:00AM
Retrieval Date: 4/21/2015 11:34:00AM Date Analyzed: 5/6/2015 12:56:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.02**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757309 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS410
Installation Date: 4/7/2015 10:00:00AM
Retrieval Date: 4/21/2015 11:34:00AM Date Analyzed: 5/6/2015 12:56:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**1.82**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757310 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS420
Installation Date: 4/7/2015 10:11:00AM
Retrieval Date: 4/21/2015 11:50:00AM Date Analyzed: 5/6/2015 2:26:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.34**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	**1120-21-4**	**0.16**	**0.05**
Naphthalene	91-20-3	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757310 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS420
Installation Date: 4/7/2015 10:11:00AM
Retrieval Date: 4/21/2015 11:50:00AM Date Analyzed: 5/6/2015 2:26:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**1.02**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757311 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS430
Installation Date: 4/7/2015 9:41:00AM
Retrieval Date: 4/21/2015 11:10:00AM Date Analyzed: 5/6/2015 12:25:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.42**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757311 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS430
Installation Date: 4/7/2015 9:41:00AM
Retrieval Date: 4/21/2015 11:10:00AM Date Analyzed: 5/6/2015 12:25:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**1.26**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757312 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS440
Installation Date: 4/7/2015 10:23:00AM
Retrieval Date: 4/21/2015 12:05:00PM Date Analyzed: 5/6/2015 2:56:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.41**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757312 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS440
Installation Date: 4/7/2015 10:23:00AM
Retrieval Date: 4/21/2015 12:05:00PM Date Analyzed: 5/6/2015 2:56:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.65**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757313 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHCS440
Installation Date: 4/7/2015 10:23:00AM
Retrieval Date: 4/21/2015 12:05:00PM Date Analyzed: 5/6/2015 7:56:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.37**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757313 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHCS440
Installation Date: 4/7/2015 10:23:00AM
Retrieval Date: 4/21/2015 12:05:00PM Date Analyzed: 5/6/2015 7:56:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**1.05**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757315 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM410
Installation Date: 4/7/2015 11:14:00AM
Retrieval Date: 4/21/2015 1:51:00PM Date Analyzed: 5/6/2015 1:26:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	127-18-4	<0.02	0.02
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757315 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM410
Installation Date: 4/7/2015 11:14:00AM
Retrieval Date: 4/21/2015 1:51:00PM Date Analyzed: 5/6/2015 1:26:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.93**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757316 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM420
Installation Date: 4/7/2015 11:26:00AM
Retrieval Date: 4/21/2015 2:02:00PM Date Analyzed: 5/6/2015 3:26:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	**108-88-3**	**0.02**	**0.02**
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.10**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	**100-41-4**	**0.03**	**0.02**
m,p-Xylene	**108-38-3/106-42-3**	**0.09**	**0.02**
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757316 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM420
Installation Date: 4/7/2015 11:26:00AM
Retrieval Date: 4/21/2015 2:02:00PM Date Analyzed: 5/6/2015 3:26:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.54**	**0.50**
BTEX		**0.14**	**0.02**
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
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SAMPLER ID: 00757317 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM430
Installation Date: 4/7/2015 11:36:00AM
Retrieval Date: 4/21/2015 2:21:00PM Date Analyzed: 5/6/2015 4:26:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.80**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757317 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM430
Installation Date: 4/7/2015 11:36:00AM
Retrieval Date: 4/21/2015 2:21:00PM Date Analyzed: 5/6/2015 4:26:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757318 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHSM430
Installation Date: 4/7/2015 11:36:00AM
Retrieval Date: 4/21/2015 2:21:00PM Date Analyzed: 5/6/2015 6:56:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.72**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757318 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHSM430
Installation Date: 4/7/2015 11:36:00AM
Retrieval Date: 4/21/2015 2:21:00PM Date Analyzed: 5/6/2015 6:56:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.54**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757319 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM440
Installation Date: 4/7/2015 11:49:00AM
Retrieval Date: 4/21/2015 2:35:00PM Date Analyzed: 5/6/2015 11:55:00AM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.13**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757319 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM440
Installation Date: 4/7/2015 11:49:00AM
Retrieval Date: 4/21/2015 2:35:00PM Date Analyzed: 5/6/2015 11:55:00AM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
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FOR: SWCA Environmental Consultants
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SAMPLER ID: 00757320 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM450
Installation Date: 4/7/2015 12:31:00PM
Retrieval Date: 4/21/2015 2:52:00PM Date Analyzed: 5/6/2015 3:56:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.08**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757320 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM450
Installation Date: 4/7/2015 12:31:00PM
Retrieval Date: 4/21/2015 2:52:00PM Date Analyzed: 5/6/2015 3:56:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757321 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HMS460
Installation Date: 4/7/2015 12:50:00PM
Retrieval Date: 4/21/2015 3:11:00PM Date Analyzed: 5/6/2015 6:26:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.11**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757321 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HMS460
Installation Date: 4/7/2015 12:50:00PM
Retrieval Date: 4/21/2015 3:11:00PM Date Analyzed: 5/6/2015 6:26:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757322 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM470
Installation Date: 4/7/2015 1:02:00PM
Retrieval Date: 4/21/2015 3:23:00PM Date Analyzed: 5/6/2015 8:26:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.09**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 Executive Drive, Suite 1
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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757322 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM470
Installation Date: 4/7/2015 1:02:00PM
Retrieval Date: 4/21/2015 3:23:00PM Date Analyzed: 5/6/2015 8:26:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.68**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757323 TRIP_BLANK Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: TB05
Installation Date: 4/7/2015 9:41:00AM
Retrieval Date: 4/21/2015 3:23:00PM Date Analyzed: 5/6/2015 7:26:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	127-18-4	<0.02	0.02
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757323 TRIP_BLANK Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: TB05
Installation Date: 4/7/2015 9:41:00AM
Retrieval Date: 4/21/2015 3:23:00PM Date Analyzed: 5/6/2015 7:26:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757324 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1

Date Analyzed: 5/6/2015 1:56:00PM

Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	127-18-4	<0.02	0.02
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05

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PROJECT NUMBER: ENV 01347
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00757324 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1

Date Analyzed: 5/6/2015 1:56:00PM

Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150424-1**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE 19702
SWCA ENVIRONMENTAL CONSULTANTS, SAN ANTONIO, TX
STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
COMAL AND SAN MARCOS RIVERS
ORDER # 01347

										estimated		
DATAFILE	FIELD	DATE/ TIME		DATE/ TIME		DATE/ TIME		DATE/ TIME				
NAME	ID	INSTALLED		RETRIEVED		RECEIVED		ANALYZED		DF	TPH, ug/L	MTBE, ug/L	t12DCE, ug/L
RL =											0.05	0.01	0.01
00757309	HCS410	4/7/2015		4/21/2015		4/22/2015	ET	5/6/2015	ET	1	0.09	<0.01	<0.01
00757310	HCS420	4/7/2015		4/21/2015		4/22/2015	ET	5/6/2015	ET	1	0.07	<0.01	<0.01
00757311	HCS430	4/7/2015		4/21/2015		4/22/2015	ET	5/6/2015	ET	1	0.08	<0.01	<0.01
00757312	HCS440	4/7/2015		4/21/2015		4/22/2015	ET	5/6/2015	ET	1	0.06	<0.01	<0.01
00757313	FDHCS440	4/7/2015		4/21/2015		4/22/2015	ET	5/6/2015	ET	1	0.07	<0.01	<0.01
00757315	HSM410	4/7/2015		4/21/2015		4/22/2015	ET	5/6/2015	ET	1	0.07	<0.01	<0.01
00757316	HSM420	4/7/2015		4/21/2015		4/22/2015	ET	5/6/2015	ET	1	0.06	<0.01	<0.01
00757317	HSM430	4/7/2015		4/21/2015		4/22/2015	ET	5/6/2015	ET	1	<0.05	<0.01	<0.01
00757318	FDHSM430	4/7/2015		4/21/2015		4/22/2015	ET	5/6/2015	ET	1	0.06	<0.01	<0.01
00757319	HSM440	4/7/2015		4/21/2015		4/22/2015	ET	5/6/2015	ET	1	<0.05	<0.01	<0.01
00757320	HSM450	4/7/2015		4/21/2015		4/22/2015	ET	5/6/2015	ET	1	<0.05	<0.01	<0.01
00757321	HMS460	4/7/2015		4/21/2015		4/22/2015	ET	5/6/2015	ET	1	<0.05	<0.01	<0.01
00757322	HSM470	4/7/2015		4/21/2015		4/22/2015	ET	5/6/2015	ET	1	0.06	<0.01	<0.01
00757323	TB05	4/7/2015		4/21/2015		4/22/2015	ET	5/6/2015	ET	1	<0.05	<0.01	<0.01
00757324						4/22/2015	ET	5/6/2015	ET	1	<0.05	<0.01	<0.01
BLK_ENV1_SPG8	Method Blank							5/6/2015	ET	1	<0.05	<0.01	<0.01

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE 19702
SWCA ENVIRONMENTAL CONSULTANTS, SAN ANTONIO, TX
STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
COMAL AND SAN MARCOS RIVERS
ORDER # 01347

DATAFILE									
NAME	11DCA, ug/L	c12DCE, ug/L	CHCl3, ug/L	111TCA, ug/L	12DCA, ug/L	BENZ, ug/L	CCl4, ug/L	TCE, ug/L	112TCA, ug/L
RL =	0.01	0.01	0.01	0.00	0.01	0.01	0.00	0.01	0.01
00757309	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01	<0.01
00757310	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01	<0.01
00757311	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01	<0.01
00757312	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01	<0.01
00757313	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01	<0.01
00757315	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01
00757316	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01
00757317	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01
00757318	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01
00757319	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01
00757320	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01
00757321	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01
00757322	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01
00757323	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01	<0.01
00757324	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01	<0.01
BLK_ENV1_SPG8	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01	<0.01

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE 19702
SWCA ENVIRONMENTAL CONSULTANTS, SAN ANTONIO, TX
STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
COMAL AND SAN MARCOS RIVERS
ORDER # 01347

DATAFILE									
NAME	TOL, ug/L	OCT, ug/L	PCE, ug/L	ClBENZ, ug/L	1112TetCA, ug/L	ETBENZ, ug/L	mpXYL, ug/L	oXYL, ug/L	1122TetCA, ug/L
RL =	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
00757309	<0.01	<0.00	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00757310	<0.01	<0.00	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00757311	<0.01	<0.00	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00757312	<0.01	<0.00	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00757313	<0.01	<0.00	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00757315	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00757316	0.01	<0.00	0.02	<0.01	<0.01	0.01	0.02	<0.01	<0.01
00757317	<0.01	<0.00	0.14	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00757318	<0.01	<0.00	0.13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00757319	<0.01	<0.00	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00757320	<0.01	<0.00	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00757321	<0.01	<0.00	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00757322	<0.01	<0.00	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00757323	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
00757324	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BLK_ENV1_SPG8	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE 19702
SWCA ENVIRONMENTAL CONSULTANTS, SAN ANTONIO, TX
STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
COMAL AND SAN MARCOS RIVERS
ORDER # 01347

								estimated
DATAFILE								
NAME	135TMB, ug/L	124TMB, ug/L	13DCB, ug/L	14DCB, ug/L	12DCB, ug/L	UNDEC, ug/L	NAPH, ug/L	TRIDEC, ug/L
RL =	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
00757309	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00757310	<0.00	<0.01	<0.01	<0.01	<0.01	0.03	<0.02	<0.02
00757311	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00757312	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00757313	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00757315	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00757316	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00757317	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00757318	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00757319	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00757320	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00757321	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00757322	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00757323	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
00757324	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
BLK_ENV1_SPG8	<0.00	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE 19702
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ESTIMATED WATER CONCENTRATIONS
COMAL AND SAN MARCOS RIVERS
ORDER # 01347

		estimated	estimated	estimated	estimated
DATAFILE					
NAME	2MeNAPH, ug/L	Acenaphthylene, ug/L	PENTADEC, ug/L	Acenaphthene, ug/L	Fluorene, ug/L
RL =	0.01	0.01	0.02	0.01	0.01
00757309	<0.01	<0.01	<0.02	<0.01	<0.01
00757310	<0.01	<0.01	<0.02	<0.01	<0.01
00757311	<0.01	<0.01	<0.02	<0.01	<0.01
00757312	<0.01	<0.01	<0.02	<0.01	<0.01
00757313	<0.01	<0.01	<0.02	<0.01	<0.01
00757315	<0.01	<0.01	<0.02	<0.01	<0.01
00757316	<0.01	<0.01	<0.02	<0.01	<0.01
00757317	<0.01	<0.01	<0.02	<0.01	<0.01
00757318	<0.01	<0.01	<0.02	<0.01	<0.01
00757319	<0.01	<0.01	<0.02	<0.01	<0.01
00757320	<0.01	<0.01	<0.02	<0.01	<0.01
00757321	<0.01	<0.01	<0.02	<0.01	<0.01
00757322	<0.01	<0.01	<0.02	<0.01	<0.01
00757323	<0.01	<0.01	<0.02	<0.01	<0.01
00757324	<0.01	<0.01	<0.02	<0.01	<0.01
BLK_ENV1_SPG8	<0.01	<0.01	<0.02	<0.01	<0.01

KEY TO DATA TABLE

UNITS

µg	micrograms, relative mass value
µg/m^3	micrograms per cubic meter; estimated soil gas concentration
µg/L	micrograms per Liter; calculated water concentration

DATA QUALIFIERS

>	greater than; value exceeds calibration range, estimated value
<	less than; compound value is below the LOD and RL
J	mass value below LOQ or RL, but above LOD, estimated mass value
E	mass value exceeds upper calibration level, estimated mass value
Q	one or more quality control parameters failed for the compound

ABBREVIATIONS

AVG RL	average reporting limit; calculated based on individual field sample RLs
LOD	limit of detection
LOQ	limit of quantification
MDL	method detection limit
RL	reporting limit

1112TetCA	1,1,1,2-tetrachloroethane
111TCA	1,1,1-trichloroethane
1122TetCA	1,1,2,2-tetrachloroethane
112TCA	1,1,2-trichloroethane
11DCA	1,1-dichloroethane
11DCE	1,1-dichloroethene
124TMB	1,2,4-trimethylbenzene
12DCA	1,2-dichloroethane
12DCB	1,2-dichlorobenzene
135TMB	1,3,5-trimethylbenzene
13DCB	1,3-dichlorobenzene
14DCB	1,4-dichlorobenzene
2MeNAPH	2-methyl naphthalene
BENZ	benzene
BTEX	combined masses of benzene, toluene, ethylbenzene, and total xylenes (Gasoline Range Aromatics)
C11,C13&C15	combined masses of undecane, tridecane, and pentadecane (C11+C13+C15) (Diesel Range Alkanes)
c12DCE	cis-1,2-dichloroethene
CCl4	carbon tetrachloride
CHC13	chloroform
ClBENZ	chlorobenzene
ct12DCE	cis- & trans-1,2-dichloroethene
EtBENZ	ethylbenzene
mpXYL	m-, p-xylene
MTBE	methyl t-butyl ether
NAPH	naphthalene
OCT	octane
oXYL	o-xylene
PCE	tetrachloroethene
PENTADEC	pentadecane
PHEN	phenanthrene
t12DCE	trans-1,2-dichloroethene
TCE	trichloroethene
TMBs	combined masses of 1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene
TOL	toluene
TPH	total petroleum hydrocarbons
TRIDEC	tridecane
UNDEC	undecane
VC	vinyl chloride

SUMMARY OF SAMPLING RATE CALIBRATION FOR AGI UNIVERSAL SAMPLER IN AQUEOUS PHASES

PURPOSE:

The purpose of this document is to:

1. Summarize the test protocol,
2. Summarize the methodology for analysis of data,
3. Present general results for generating concentration calibration

of the AGI Universal Sampler, part number SPG-0008, in aqueous phase media following AGI's "Standard Practice for Determining the Sampling Rate of Passive Diffusion Samplers in Various Environmental Media": SPG-SOP-0493. The work will be summarized in three parts: Part 1: shallow water, Part 2: deep water, and Part 3: sediment.

Principle of Operation of the AGI Samper

The AGI Universal Sampler is designed with solid adsorbents enclosed inside a tubular microporous PTFE membrane. When placed in water, the pores and hydrophobic nature of the PTFE keep liquid water from entering the membrane until a water head of about 34 feet is reached. The membrane will not keep water vapor from entering but the adsorbents are very hydrophobic and through testing validated to be unaffected by this moisture vapor. In shallow water, <34', volatile and semi-volatile compounds will partition from the dissolved water into the air phase in the PTFE membrane according to Henry's Law. This partitioning is instantaneous and within seconds-minutes, the compound is adsorbed by the adsorbent inside the sealed tube. Because the diffusivity in air is about 10,000 times higher than the diffusivity in water, the sampling rate is controlled by the water contact area of the membrane that allows the Henry's Law effect to occur. This contact area is set by the membrane diameter and length of the sealed tube, which is fixed in AGI's manufacturing process.

Henry's law as well as diffusivity, which are fundamentally incorporated into the sampling rate, are affected by temperature, T, and follow an Arrhenius equation $H_T = Hr \times \exp([-Ea/R](1/Tr - 1/T))$. Because a 5°C temperature change can make a 15% change in sampling rate, the temperature of the sampled water should be known to get the most precise concentration.

The membrane pore size is also small enough that colloidal particles and microbes can not pass through the membrane. This keeps the adsorbent from getting contaminated and eliminates any need to add preservative or chilling during storage or transportation.

When the water pressure exceeds the water entry pressure of the membrane, about 34 feet of water, the water becomes in contact with the solid adsorbent. Under this condition the compounds in the water will partition from the water into the solid. The partitioning coefficient, K_{AW}, can be approximated by the octanol-water coefficient, K_{OW}, but has been measured more precisely in the lab for AGI's specific solid adsorbent. The sampling rate is the product of the sampling rate at <34' of water and the K_{AW}.

In sediment, the sampler measures pore-water concentration, which is generally agreed to be the preferred measurement as it is more indicative of bioavailability. In sediment the volumetric availability of water to the sampler is reduced by the volume fraction solids in the sediment, which typically varies from zero to 35%, but can be has high at 73% in well packed and broad particle size distribution sediments. As a result, sampling rates in sediment are multiplied by the fraction pore water in the sediment to determine concentration.

PART 1: Calibration in shallow water

Part 1 summarizes the work in shallow water generating calibration data, evaluating the physical and chemical factors affecting the sampling rate, and measurement of the actual sampling rates or regression calibration equations needed to determine concentrations.

Sample Generation in water

In this calibration work, solutions of analytes at known concentrations were formulated in clean 4 liter smoked glass jugs by injecting microliter measured amounts of environmental standards using a calibrated syringe into pure or deionized water and stirring for a minimum of 2 hours but generally overnight. Headspace in the jugs was minimized and generally less than 1% by volume during the tests. Jugs were temperature controlled by placing them in a water filled cooler, chilled via a cooper tubing loop in the cooler. Temperature was measured with a certified digital temperature gauge and an average value used for each temperature experiment.

AGI samplers were weighted so they won't float and placed in the jugs at time zero. They were removed at various intervals to generate samples along with duplicates that showed mass increasing with exposure time. The sampler exposure time was selected to span minutes to hours and was generally reduced for high concentration tests to maintain uptake with time in roughly the linear dynamic range. Samplers were removed and dried with a paper towel and returned to their original container for analysis. They were analyzed by AGI's 8260C (SPG-WI-318 or SPG-WI-10028) method in duplicate, which is based on EPA SW846 Method 8260C.

Water samples were also taken and measured at an outside accredited lab using EPA SW846 Method 8260B. The concentrations agreed well with the calculated concentrations based on the standard certification, jug volume, and syringe injection. The variability of the outside lab 8260B values were found to be high, so for the sampling rate calculations we used the concentrations based on syringe dosing.

Calibrations were run at five concentrations, nominally at 6, 24, 118, 590, 1420 ug/L and five temperatures nominally at 5, 10, 15, 20, and 25 degrees centigrade. Samples were taken at 4 different exposure times. Samples were run in duplicate. A total of 176 data points were generated using 28 compounds from AGI's standard compounds list. Tridecane and pentadecane were not evaluated due to their very low solubility in water. In addition, another 23 compounds were tested using an 8260 liquid standard at nominal concentrations of 0.5, 1.0, 5.0, 15, 95, and 470 ug/L at a temperature typical of groundwater, 15°C. This is a living calibration and as additional data are generated, they may be qualified and added to this data set to improve the precision of the sampling rate calibration and broaden the compound list.

Key Variable Effects

As expected from theory, at short to moderate exposure times, mass will increase roughly linearly proportional to exposure time, as well as proportional to concentration, and exponentially with temperature following Arrhenius law. Temperature affects the Henry's law as well as diffusivity in water. Sampling rate is generally independent of concentration and time at mass values significantly below saturation. In the following sections we have characterized the sampling rate for each compound as affected by temperature and also developed calibrations using regression which account for the minor impact of time, and mass.

Concentration using Simple Sampling Rate Determination

A simple way to determine concentration is to measure mass on the AGI sampler, divide by exposure time, and divide by sampling rate, SR.

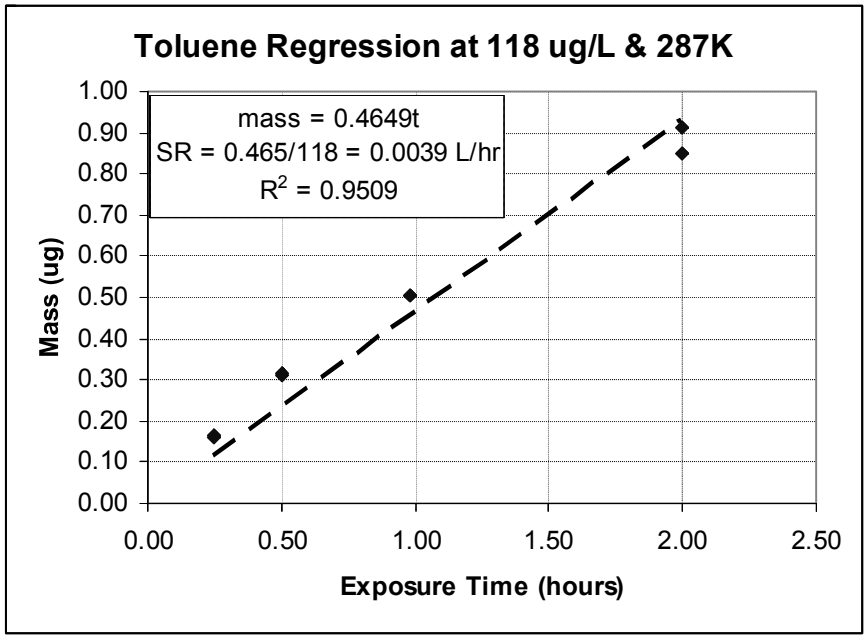
Conc [ug/L] = mass/time/SR (1)

The sampling rate can be determined via measurements of mass versus time at a known concentration and temperature according to the following modification of equation (1).

SR = mass/time/concentration (2)

Sampling rates in L/hr were determined by measuring the trend or regression mass uptake versus time and dividing by the concentration. A measurement like this will use 8 data points (4 times x 2 samples). Such a sampling rate can be measured at any concentration and temperature.

The chart to the right shows a plot of mass versus time for water at 118 ug/L and 287K. This is actual data from a single run. Slope of 0.465 ug/hr divided by the concentration of 118 ug/L yields a sampling rate, SR, of 0.0039 L/hr.



SR's typically range from about 0.004 to 0.007 L/hr at 15°C. Table A shows SR's measured for our standard compound list at 5 temperatures.

Rigorous Concentration using Regression

A preferred method for determining concentration that will yield improved accuracy over a wide range of concentrations, exposure times, and temperatures is to use all data in a regression analysis. This allows adjustments for the minor non-linear influences of mass and time as well as the effects of temperature. This is done by regressing equation (1) or a universal version of equation (1)

$$Conc = (mass)^{b} / (time)^{-d} / [-SRo*exp(-Ea/R/T)] \quad (3)$$

The subtle non-linear effects of mass and time will be evident in the deviation of coefficients b and d from 1.0. This regression generates four constants b, d, SRo, and –Ea/R by regressing ln(conc) versus ln(mass), ln(time), 1/temp. These four constants can be used to determine concentration via the equation:

$$Conc = (mass)^{b} / (time)^{-d} / [-SRo \times exp(-Ea/R(1/T))] \quad (4)$$

Where conc is in ug/L, mass is in ug, time in hours, T in degrees Kelvin.

Equation (4) an be also expressed at a reference temperature, Tr, such as 15°C by

$$Conc = (mass)^{b} / (time)^{-d} / [-SRr \times exp(-Ea/R(1/Tr-1/T))] \quad (5)$$

This allows sampling rates, SRr, at any reference temperature, Tr, and for any analyte to easily be compared. These values of SRr at 293.14K can be found in Table A.

When sampling times are between 0 and 4 hours, using the 4 constant equation (5) is preferred. For concentrations from about 5 to 1500 ug/L one hour exposure times generally give the lowest error, typically with average error of 6-20% and with total error range of 12%-32%. For low concentrations where sampling times are greater than 4 hours, it is preferred to use equation (1) to avoid unrealistic effects from the coefficient d or to set d to 1.0. In such a case SR in equation (1) can be substituted with [SRr x exp(-Ea/R(1/Tr-1/T))] to use an SR representative of the well temperature, T.

The chart to the right is a plot of the calculated concentration from the 4 constant regression compared to the dosed concentration. Agreement is excellent for the 176 data points.

There does appear to be a slight high bias of 8.6% over the full range of this data, although it is well within acceptable limits of variability.

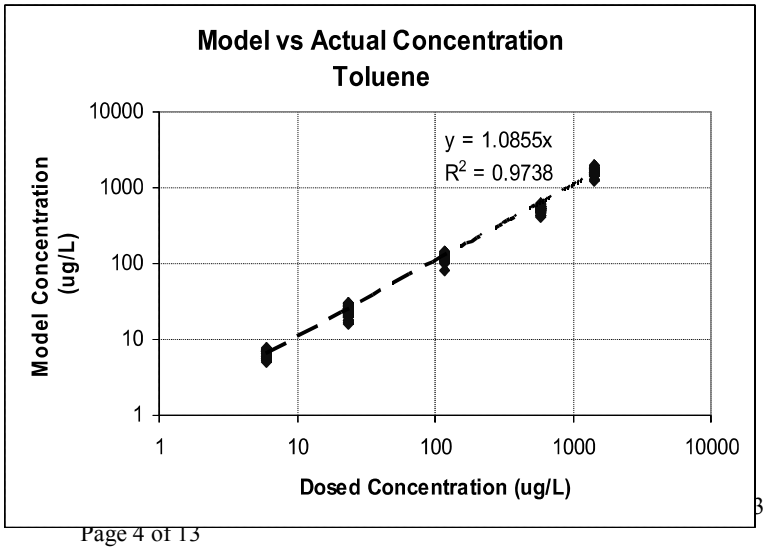


Table B shows the tabulated summary of the 4 constants regression with Rsq values and error estimates for the 4 constants for each analyte. Most regression Rsq values are 0.99 or greater for each analyte. In general, -Ea/R is about 2400+/-400, b is about 0.9, d is about -0.75, and SR(15°C) ranges from .004 L/hr to 0.007 L/hr increasing with MW of the compound.

Error Estimates

The error in the water concentration values will depend on both the error in mass from the analytical method as well as the error in the concentration calibration. Table C shows the error in the mass values from the 8260C low sensitivity method.

The standard error of the regression and standard errors of the constants can be found in table B. For each compound we have measured the error between the derived concentration and the actual concentration. The error tends to be lowest at our recommended exposure time of one hour as shown by the example for Toluene to the right.

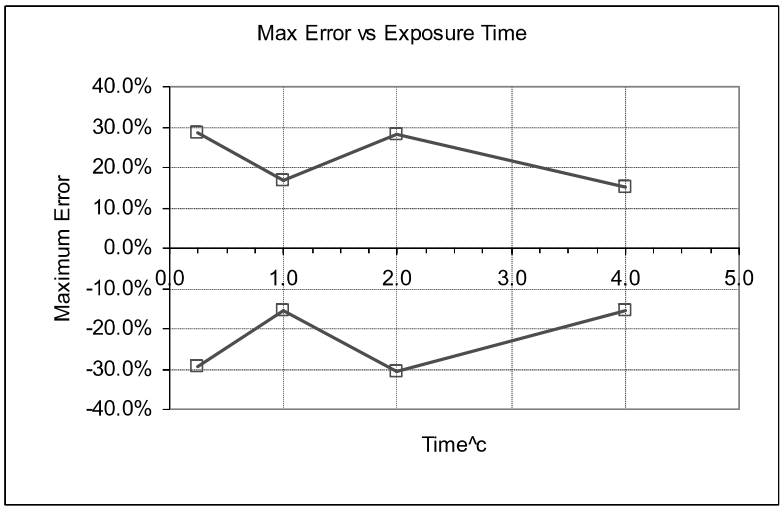
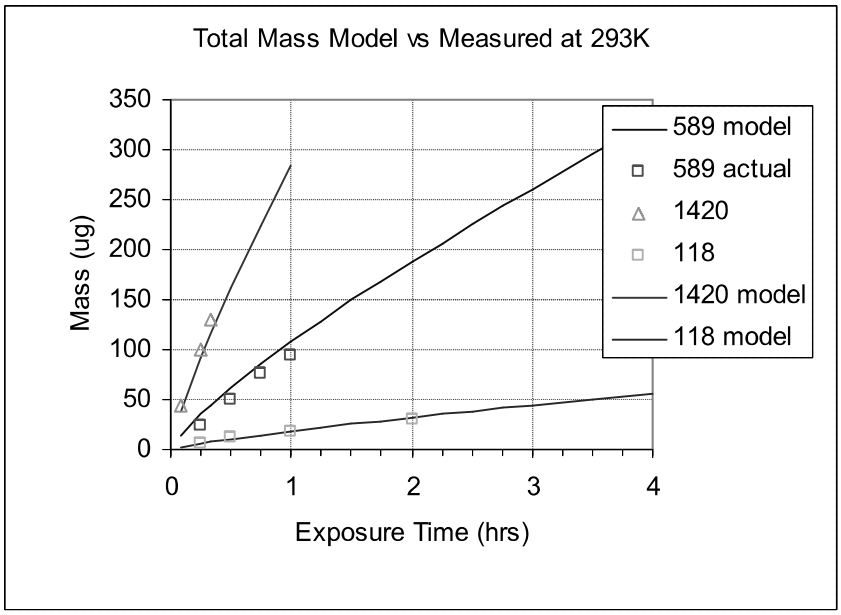


Table D shows the total average error in water concentration by compound as well as the low and high error. The average ranges from about 6% to 20%, which is similar to the analytical method errors. The low and high errors range from 12% to 32% and include contribution from measurement errors in both time and temperature.

Sorbent Saturation

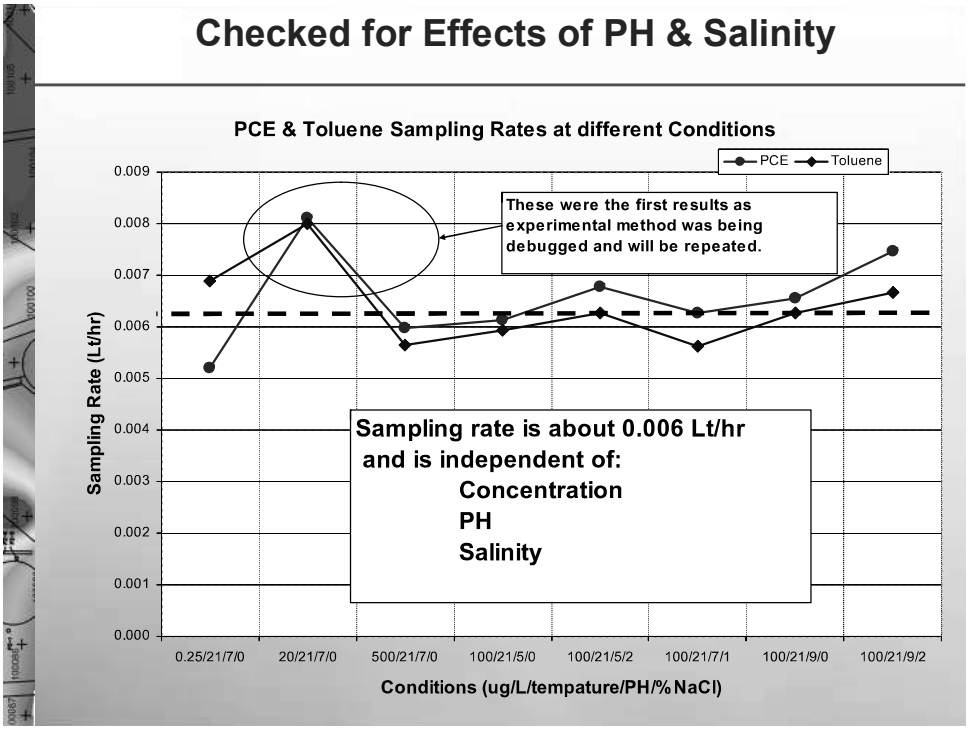
As mass increases on a solid sorbent and approaches saturation, reverse diffusion can occur causing the sampling rate to drop. Eventually the mass level will reach a maximum steady state value at any concentration. A rate of mass uptake with time that deviates significantly from linear, indicates that sorbent saturation could be an issue. When using equation (1), staying in the linear range to avoid the effects of adsorbent saturation is important. We recommend keeping the total mass on the sampler below 50 ug or flagging when this is exceeded.

The 4 constant regression accounts for some of the non linearity allowing good accuracy at higher mass levels. From the experimental data we have found this safe range can be extended to 100 ug or higher as shown in the chart below. This chart compares total mass of all compounds (excluding heavy alkanes, which have solubility issues) versus time in comparison to that predicted from the 4-constant concentration equation.



Effect of PH and Salinity

Because neither PH nor salinity is known to have a significant impact on Henry's law or diffusivity in water, we did not expect them to have a significant impact on sampling rate. To confirm this, experiments were run varying PH from 5 to 9 and NaCl content from 0 to 2%. The chart below shows no significant impact for combinations of PH and NaCl content over this range on the sampling rate of toluene in water at 21°C.

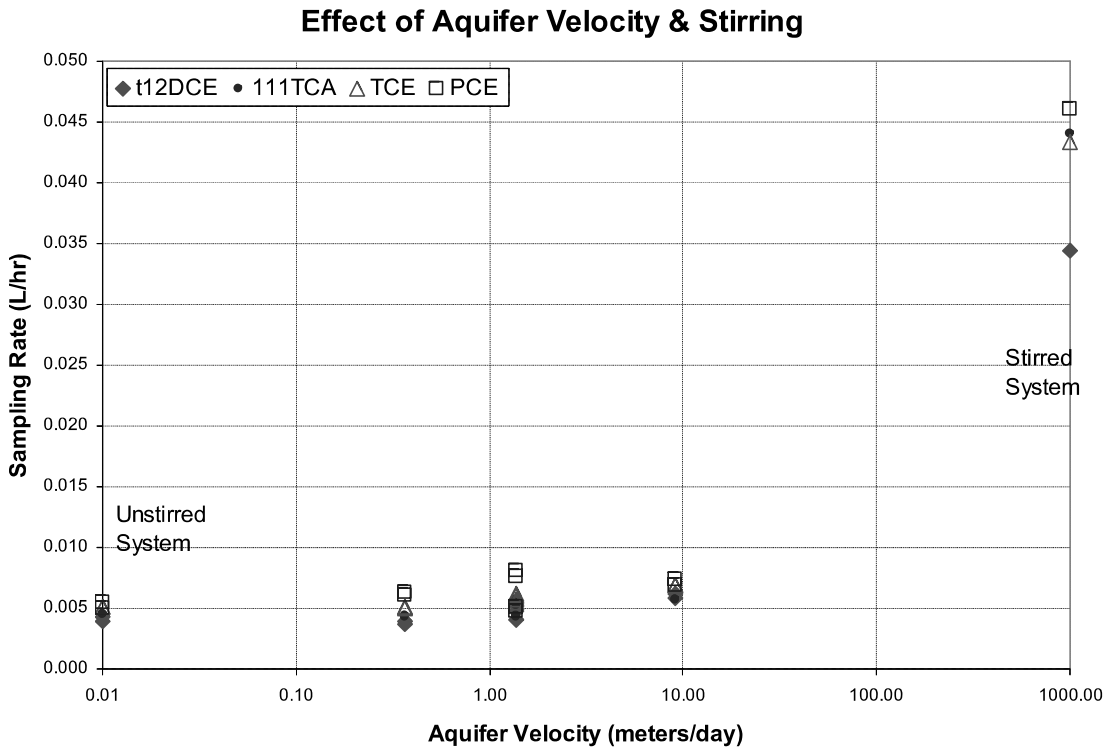


Impact of Aquifer Velocity

The velocity in most aquifers is quite slow, typically a meter/day or less. Occasionally water flow could be much higher such as encountered in karst aquifers, streams or rivers. Mass transfer coefficients are higher in high flow conditions, which will lead to higher sampling rates. We validated that a highly stirred system had sampling rates about 10 times higher than those that were non-stirred. We decided to evaluate the effect of aquifer velocity.

A test apparatus was built comprising a 3" PVC pipe tee filled with clean sand in each of the horizontal straight legs and screened to leave the center open. A test solution was run through this system using a variable flow pump and AGI samplers were placed into the simulated well through the vertical leg of the tee. Tests were run to examine the effect of velocity by varying the pumping rate and hence water velocity.

The chart below shows no significant effect of aquifer velocity up to a speed of about 10 meters/day. At velocities significantly above this, similar to a stirred system, sampling rates are about 10 times higher.

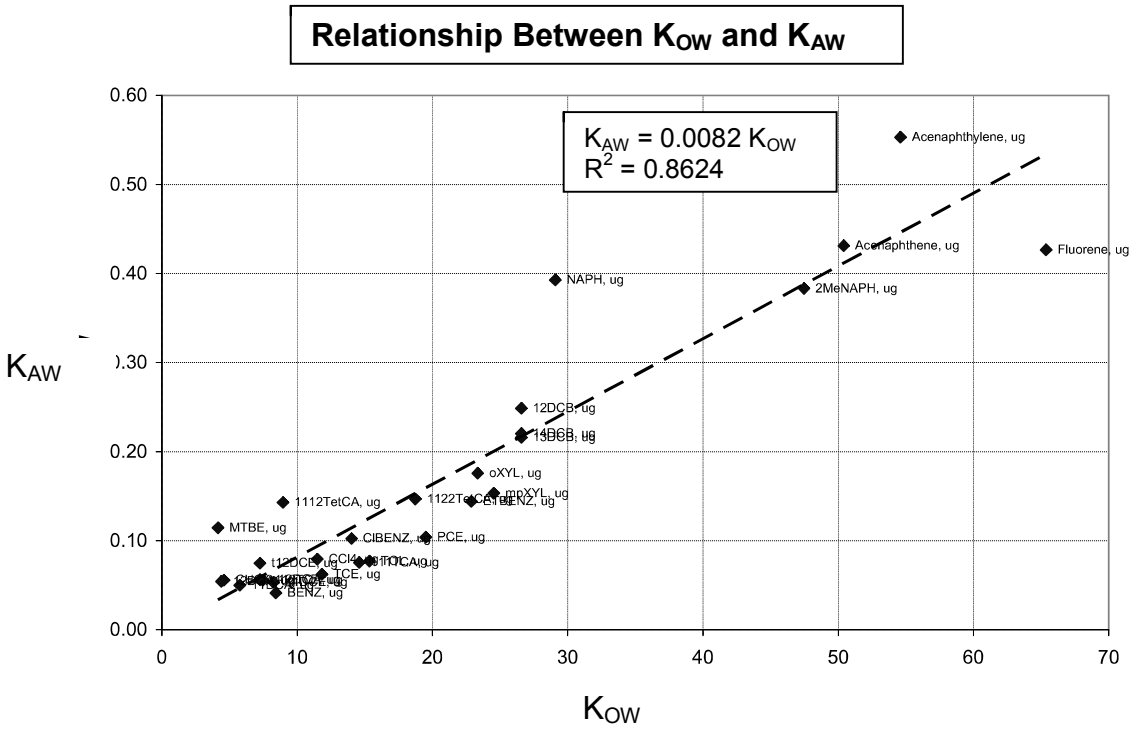


Part 2: Calibration in Deep (>34') water

Part 2 describes the effect of deep water on the AGI sampler and summarizes the effects on sampling rate and concentration measurement.

When the water pressure exceeds the water entry pressure of the membrane, about 34 feet of water, the water becomes in direct contact with the solid adsorbent. Under this condition the compounds in the water will partition from the water into the solid. The portioning coefficient is closely related to the octanol-water coefficient, K_{OW}, but has been measured more precisely in the lab for AGI's specific solid adsorbent, K_{AW}. The sampling rate for deep water is the product of the sampling rate at <34' of water and the K_{AW}.

Measurement of the K_{AW} was done in a one liter stainless steel vessel pressurized with nitrogen to simulate water heads above 34' of water. Pressures of up to 465 psig or 200' of water head were used. The sampling rate change was the same at all pressures above 34' of water. The K_{AW} was determined as the ratio between the mass or sampling rate above 34' of head to the rate at <34' of head and is shown in the chart below.



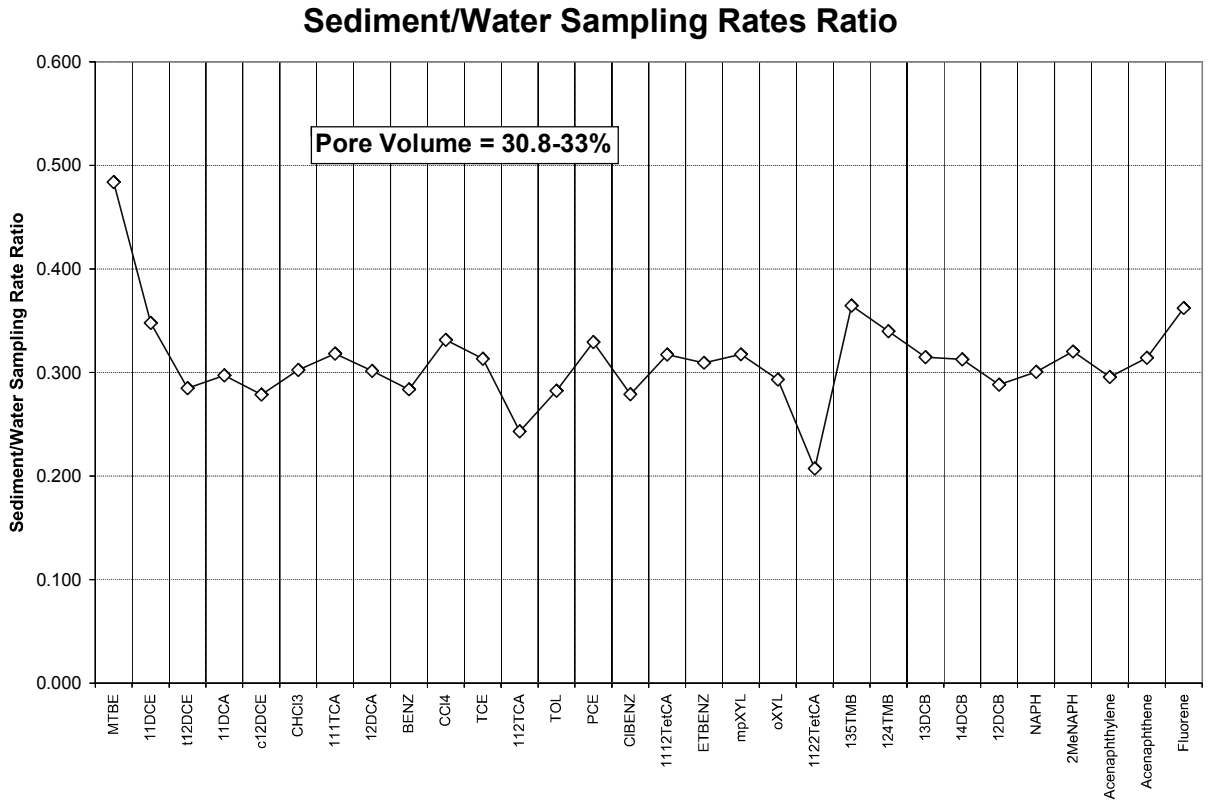
Part 3: Calibration in Sediment

Part 3 describes the effect of sediment solids or sediment pore volume on the sampling rate and concentration measurement.

In sediment, the sampler measures pore water concentration, which is generally agreed to be the preferred measurement as it is more indicative of bioavailability. In sediment the volumetric availability of water to the sampler is reduced by the volume fraction solids in the sediment. As a result sampling rates in sediment are multiplied by the fraction pore water to determine

concentration. Pore water fraction can range from 1.0 for water without sediment to as low as 0.25. Typically most sediments have pore fractions of 0.9 to 0.65.

A sampling rate study was done with water and with water added into a well-packed sorted sand. Pore water fraction in this test was measured between 30.8% 33% by volume. Below is a plot of the ratio of sampling rates measured in the sediment to open water. The average ratio is equal to the pore water fraction confirming that sampling rate in sediment is on average equal to the product of pore water fraction times the sampling rate in water.



Summary

The AGI® Sampler can be used to determine the concentration of volatile and semi-volatile compounds in a water phase. This requires knowing the exposure time and water temperature. It also requires knowing if the sample is above or below 34' of water head and if the water has a velocity above 10 meters/day. Regressions of large amounts of data were used to generate a four constant equation to generate concentration values in water. Potential error in the concentration values is excellent typically less than 25%.

TABLE A
WATER SAMPLING RATES STANDARD LIST

	SRr 293.14	SR @ 277.54	SR @ 282.44	SR @ 287.84	SR @ 293.24	SR @ 298.94
MTBE	0.0025	0.0014	0.0016	0.0018	0.0022	0.0029
t12DCE	0.0043	0.0028	0.0028	0.0027	0.0037	0.0048
11DCA	0.0047	0.0031	0.0033	0.0033	0.0039	0.0052
c12DCE	0.0046	0.0030	0.0031	0.0031	0.0038	0.0051
CHCl3	0.0046	0.0030	0.0031	0.0031	0.0038	0.0051
111TCA	0.0066	0.0043	0.0047	0.0047	0.0056	0.0076
12DCA	0.0045	0.0029	0.0029	0.0030	0.0036	0.0050
BENZ	0.0050	0.0031	0.0034	0.0035	0.0042	0.0056
CCl4	0.0068	0.0044	0.0048	0.0047	0.0058	0.0080
TCE	0.0052	0.0030	0.0034	0.0034	0.0043	0.0058
112TCA	0.0043	0.0027	0.0027	0.0028	0.0034	0.0048
TOL	0.0056	0.0034	0.0039	0.0039	0.0047	0.0062
OCT	0.0064	0.0046	0.0050	0.0040	0.0058	0.0089
PCE	0.0061	0.0036	0.0043	0.0043	0.0051	0.0069
ClBENZ	0.0054	0.0033	0.0039	0.0040	0.0045	0.0059
1112TetCA	0.0061	0.0037	0.0042	0.0044	0.0050	0.0065
EtBENZ	0.0060	0.0037	0.0045	0.0044	0.0052	0.0069
mpXYL	0.0064	0.0039	0.0048	0.0046	0.0055	0.0072
oXYL	0.0066	0.0041	0.0050	0.0048	0.0057	0.0074
1122TetCA	0.0044	0.0027	0.0029	0.0031	0.0036	0.0046
135TMB	0.0079	0.0046	0.0059	0.0056	0.0071	0.0093
124TMB	0.0078	0.0046	0.0060	0.0055	0.0071	0.0092
13DCB	0.0072	0.0041	0.0055	0.0053	0.0063	0.0080
14DCB	0.0071	0.0040	0.0054	0.0052	0.0062	0.0079
12DCB	0.0070	0.0040	0.0053	0.0051	0.0060	0.0076
UNDEC		0.0026	0.0024	0.0020	0.0031	0.0029
NAPH		0.0041	0.0056	0.0054	0.0064	0.0081
TRIDEC						
2MeNAPH		0.0043	0.0066	0.0066	0.0080	0.0108
PENTADEC						
Total mass	0.1177	0.0822	0.1339	0.1334	0.1773	0.1981

Values in L/hr

Total mass does not include UNDEC, TRIDEC, PENTADEC (28 compounds)

TABLE B
4 CONSTANT REGRESSION OUTPUT

	Adjusted Rsq	Standard Error	ln(SR0)	b	-Ea/R	d	Std Error ln(SR0)	Std Error b	Std Error -Ea/R	Std Error d
MTBE	0.997	0.0960	-3.217	0.981	2704	-0.709	0.2881	0.0062	83	0.0082
t12DCE	0.992	0.1659	-1.877	0.905	2147	-0.760	0.4971	0.0100	144	0.0138
11DCA	0.995	0.1272	-1.346	0.916	1965	-0.746	0.3809	0.0077	110	0.0106
c12DCE	0.995	0.1299	-1.905	0.911	2137	-0.751	0.3892	0.0078	112	0.0109
CHCl3	0.996	0.1260	-1.841	0.912	2118	-0.748	0.3776	0.0076	109	0.0105
111TCA	0.995	0.1279	-2.684	0.902	2259	-0.761	0.3836	0.0076	111	0.0106
12DCA	0.995	0.1263	-2.161	0.908	2218	-0.746	0.3786	0.0076	109	0.0106
BENZ	0.995	0.1323	-2.207	0.920	2198	-0.754	0.3965	0.0080	114	0.0110
CCl4	0.994	0.1405	-3.121	0.889	2379	-0.776	0.4220	0.0083	122	0.0116
TCE	0.992	0.1655	-3.338	0.900	2522	-0.772	0.4969	0.0099	144	0.0137
112TCA	0.995	0.1264	-2.412	0.896	2302	-0.724	0.3790	0.0075	109	0.0107
TOL	0.994	0.1426	-2.873	0.916	2364	-0.756	0.4281	0.0087	124	0.0119
OCT	0.938	0.4698	-5.984	0.822	3235	-0.827	1.4231	0.0277	412	0.0388
PCE	0.991	0.1773	-3.780	0.877	2601	-0.775	0.5329	0.0103	154	0.0147
ClBENZ	0.994	0.1457	-2.601	0.911	2292	-0.747	0.4370	0.0088	126	0.0122
1112TetCA	0.996	0.1235	-2.676	0.898	2281	-0.725	0.3705	0.0073	107	0.0104
EtBENZ	0.993	0.1597	-2.930	0.918	2357	-0.752	0.4794	0.0097	138	0.0134
mpXYL	0.992	0.1678	-3.036	0.909	2372	-0.749	0.5037	0.0101	145	0.0140
oXYL	0.993	0.1555	-2.862	0.911	2312	-0.740	0.4667	0.0094	135	0.0131
1122TetCA	0.996	0.1118	-1.971	0.913	2167	-0.691	0.3351	0.0067	97	0.0096
135TMB	0.988	0.2024	-4.435	0.897	2720	-0.738	0.6093	0.0121	176	0.0170
124TMB	0.989	0.1997	-4.126	0.890	2631	-0.731	0.6009	0.0118	173	0.0169
13DCB	0.991	0.1832	-3.422	0.888	2449	-0.730	0.5503	0.0108	159	0.0155
14DCB	0.991	0.1802	-3.263	0.892	2408	-0.724	0.5413	0.0107	156	0.0153
12DCB	0.992	0.1697	-2.970	0.894	2327	-0.716	0.5092	0.0101	147	0.0144
UNDEC	0.694	0.374	-1.406	0.426	1708	-0.806	1.792	.00.028	517	0.053
NAPH	0.992	0.166	-3.374	0.915	2430	-0.671	0.497	0.010	144	0.014
TRIDEC										
2MeNAPH	0.984	0.238	-5.498	0.869	2990	-0.689	0.72	0.014	208	0.021
PENTADEC										
Total mass	0.993	0.1543	-6.111	0.907	2419	-0.732	0.4666	0.0093	134	0.0130

TABLE C
8260C MASS UNCERTAINTY

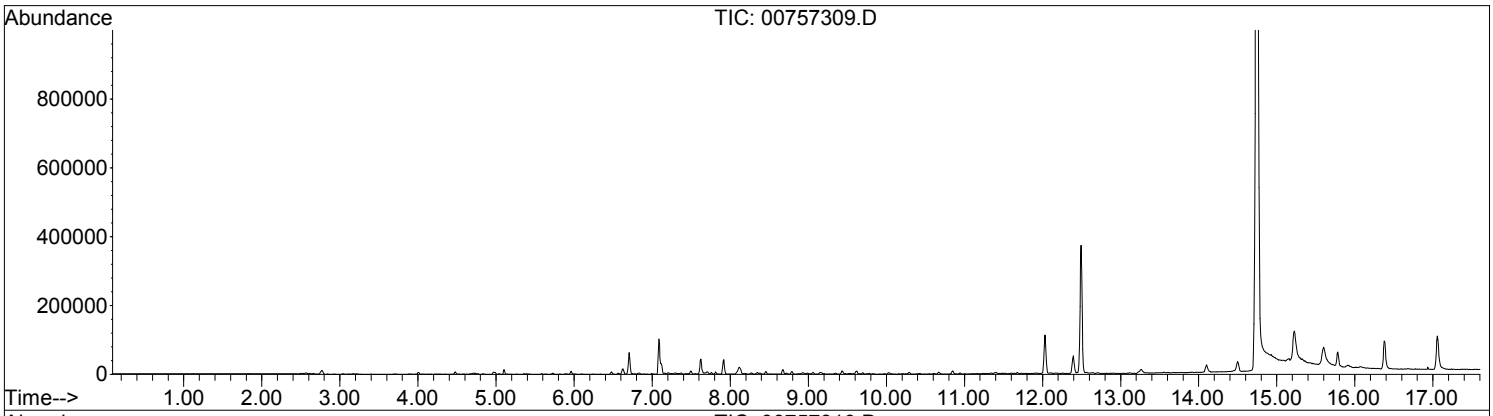
AGI 8260C Method for Mass using SPG-0008 Samplers

	99% Uncertainty Range +/-	95% Uncertainty Range +/-
MTBE	20%	14%
t12DCE	22%	15%
11DCA	18%	12%
c12DCE	18%	12%
CHCl3	16%	11%
111TCA	18%	12%
12DCA	20%	13%
BENZ	16%	10%
CCl4	19%	12%
TCE	15%	10%
112TCA	18%	12%
TOL	15%	10%
OCT	20%	13%
PCE	16%	11%
ClBENZ	18%	12%
1112TetCA	19%	13%
EtBENZ	18%	12%
mpXYL	18%	12%
oXYL	18%	12%
1122TetCA	23%	15%
135TMB	21%	14%
124TMB	20%	14%
13DCB	19%	13%
14DCB	19%	13%
12DCB	20%	14%
NAPH	21%	14%
2MeNAPH	25%	17%

TABLE D
4 CONSTANT WATER CONCENTRATION UNCERTAINTY

ERROR IN CONCENTRATION REPORTING (1)

	Average Error	Minimum Error	Maximum Error
MTBE	6%	-12%	12%
t12DCE	11%	-26%	21%
11DCA	8%	-19%	13%
c12DCE	9%	-19%	15%
CHCl3	9%	-20%	14%
111TCA	9%	-19%	23%
12DCA	10%	-19%	17%
BENZ	8%	-18%	13%
CCl4	10%	-23%	22%
TCE	10%	-21%	14%
112TCA	11%	-21%	21%
TOL	7%	-17%	14%
OCT	20%	-41%	42%
PCE	10%	-24%	15%
ClBENZ	7%	-16%	14%
1112TetCA	8%	-17%	18%
EtBENZ	6%	-19%	14%
mpXYL	7%	-22%	13%
oXYL	7%	-19%	13%
1122TetCA	8%	-16%	17%
135TMB	9%	-23%	17%
124TMB	10%	-28%	19%
13DCB	10%	-22%	17%
14DCB	10%	-22%	17%
12DCB	9%	-23%	17%
NAPH	10%	-24%	21%
2MeNAPH	13%	-32%	30%
(1) For 1 hour exposure, includes error related to mass value from AGI analytical method 8260C			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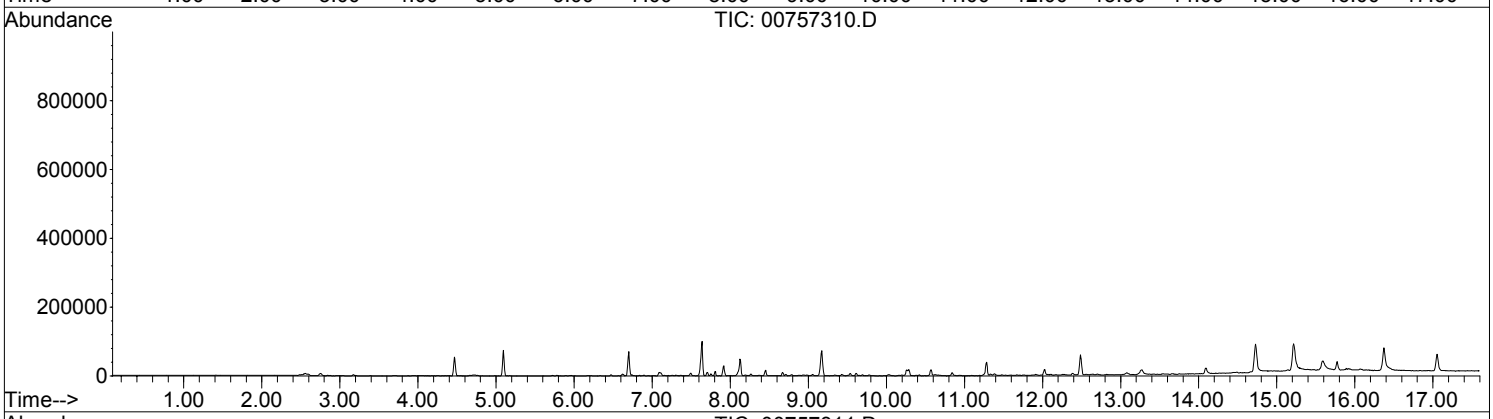
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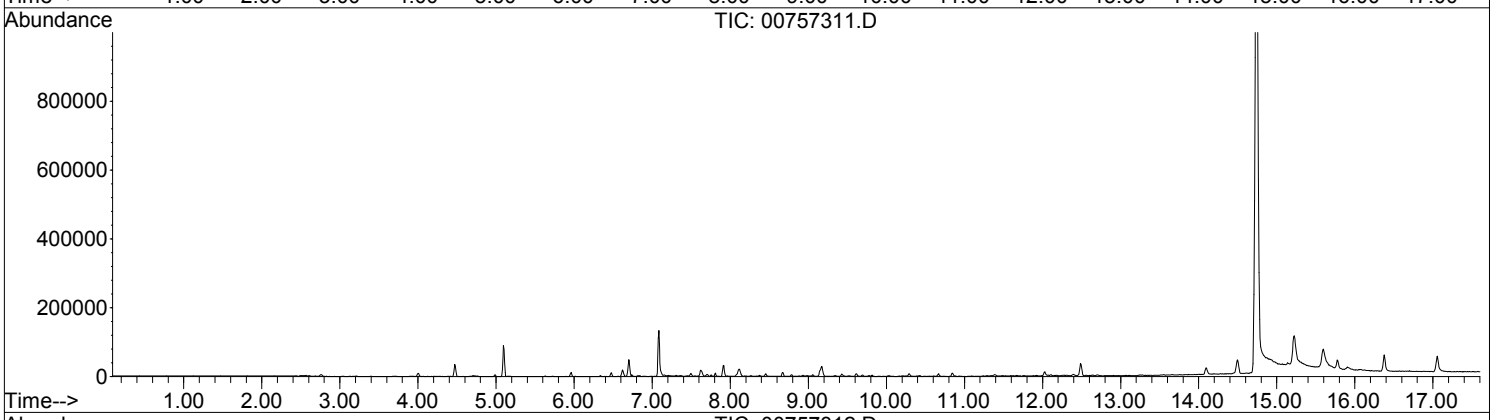
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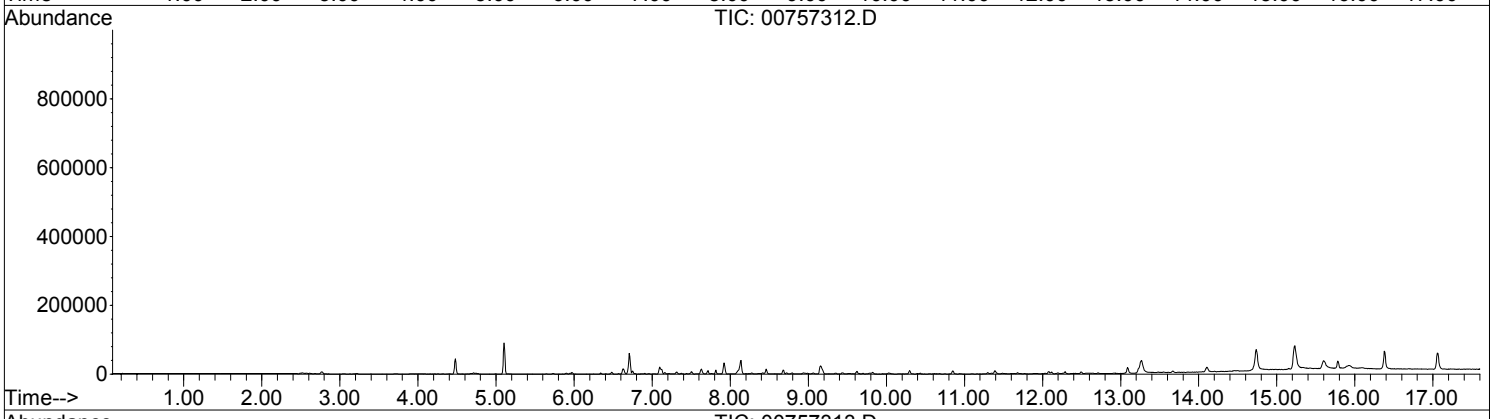
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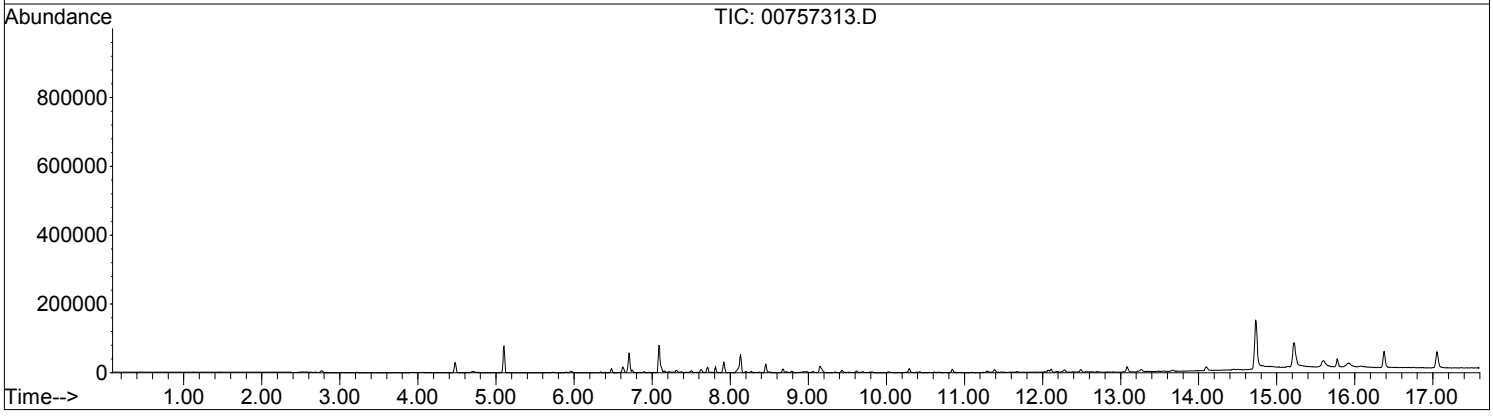
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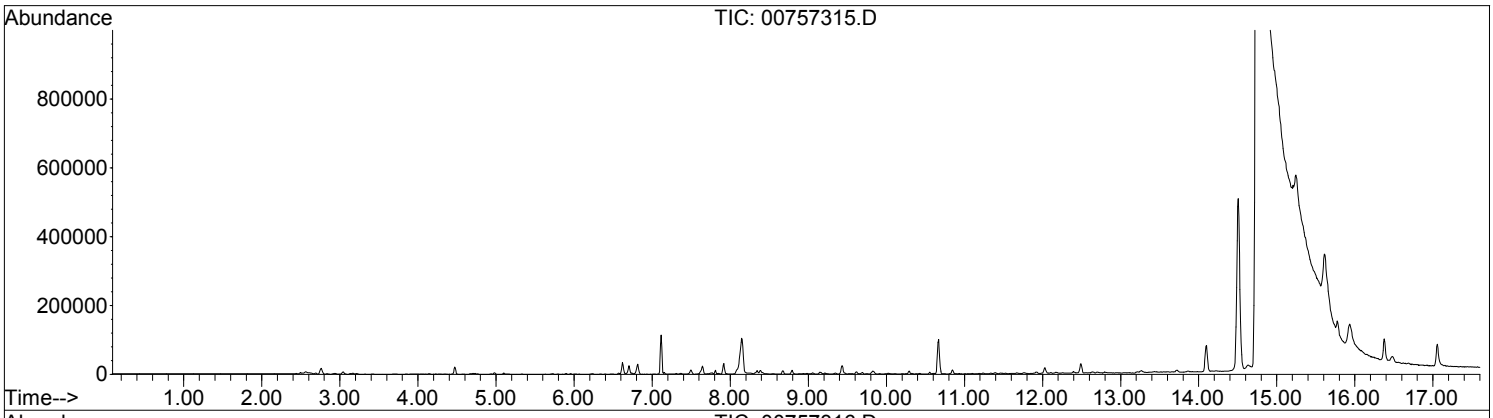
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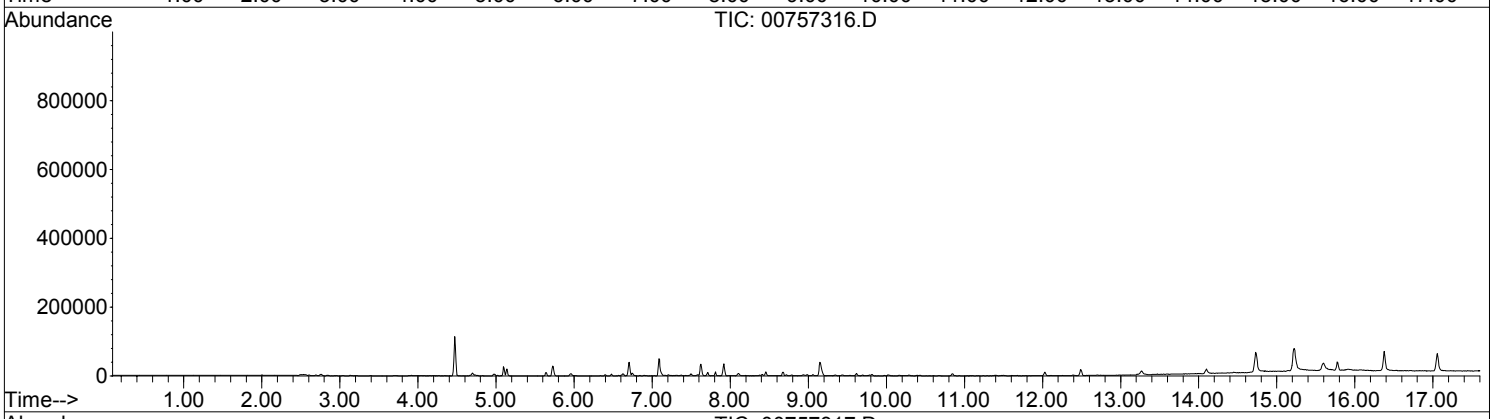
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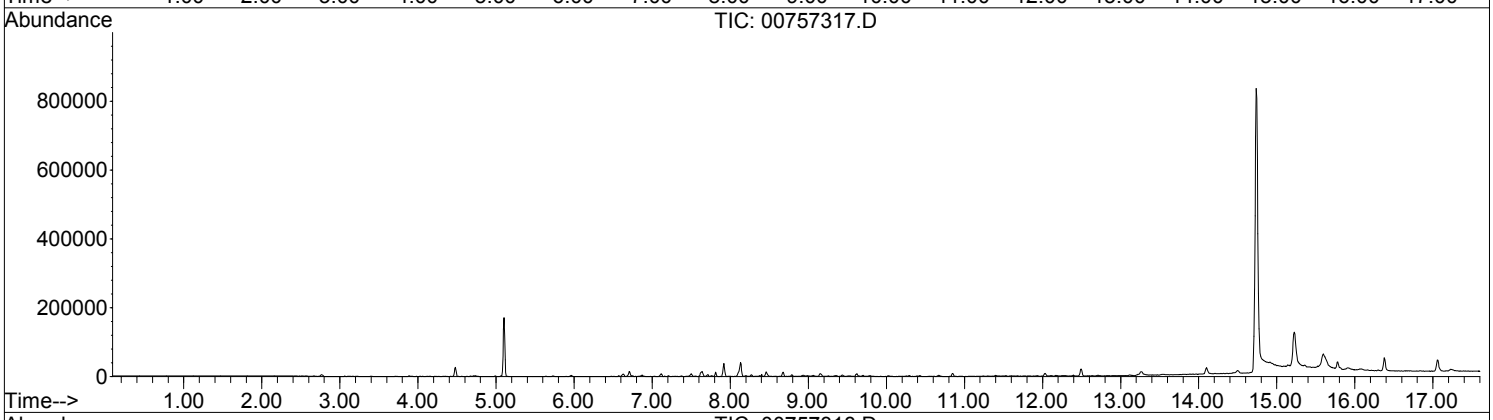
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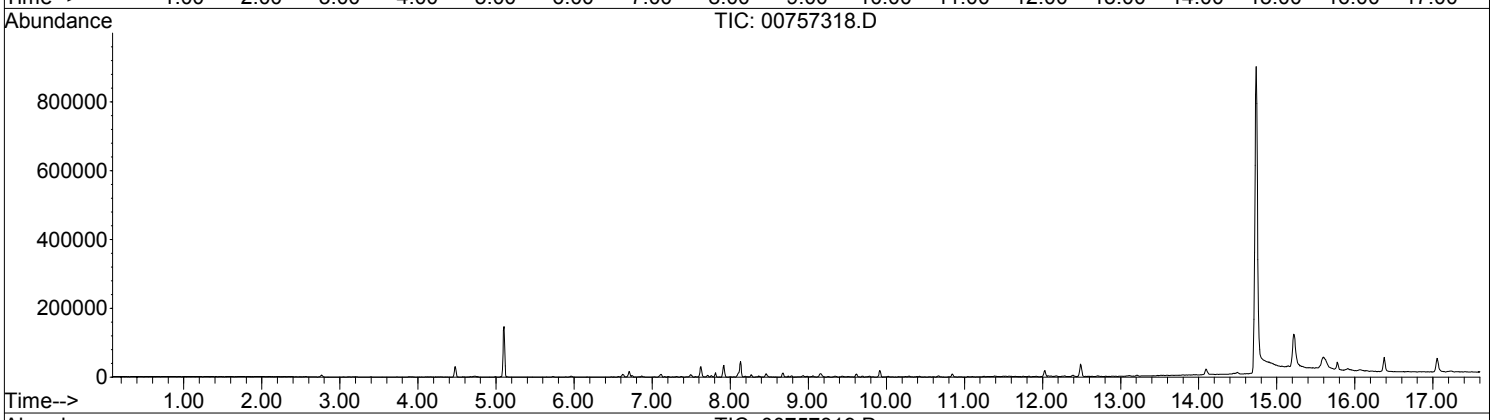
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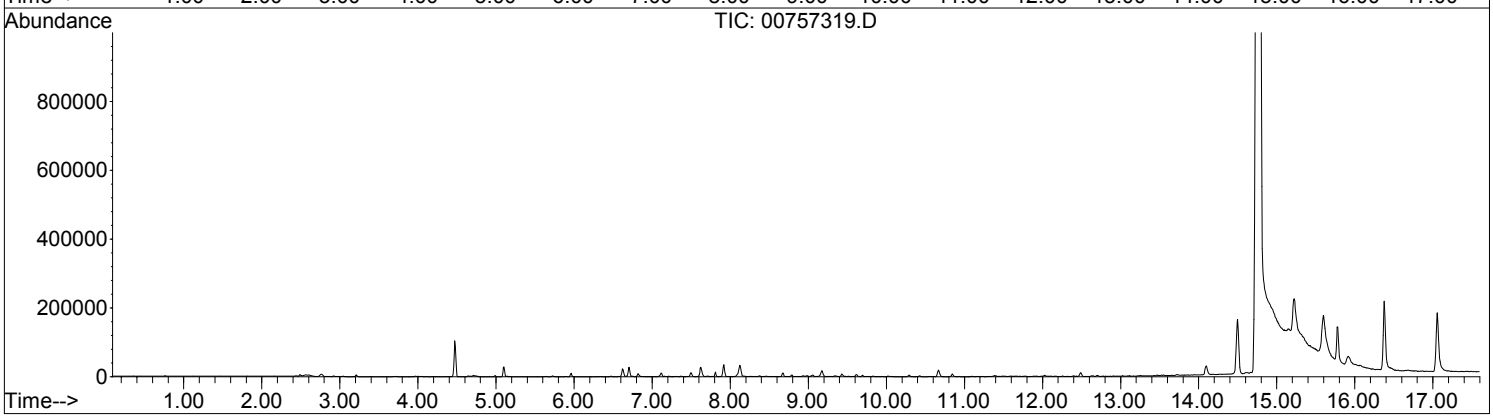
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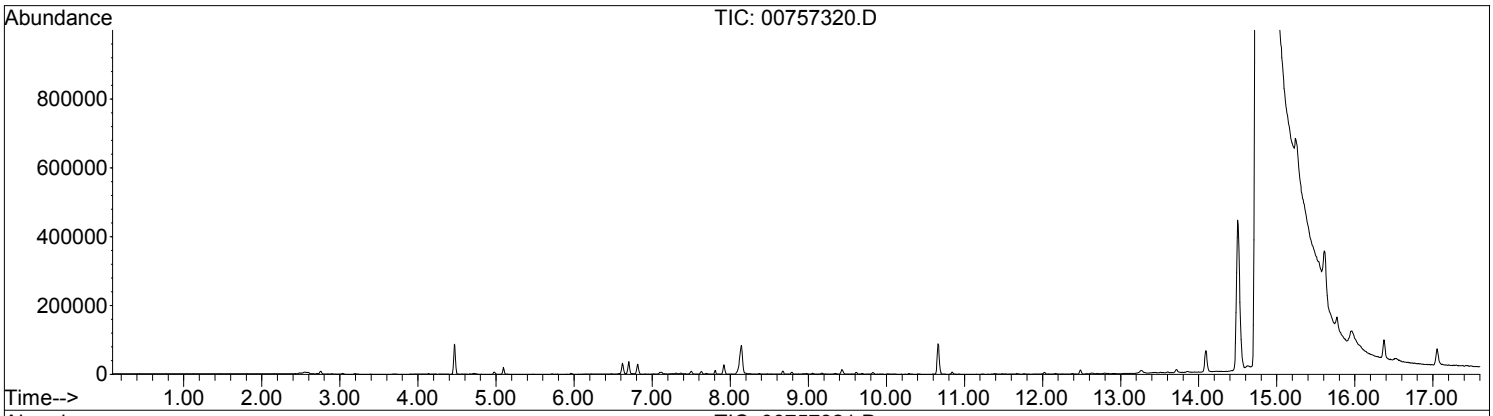
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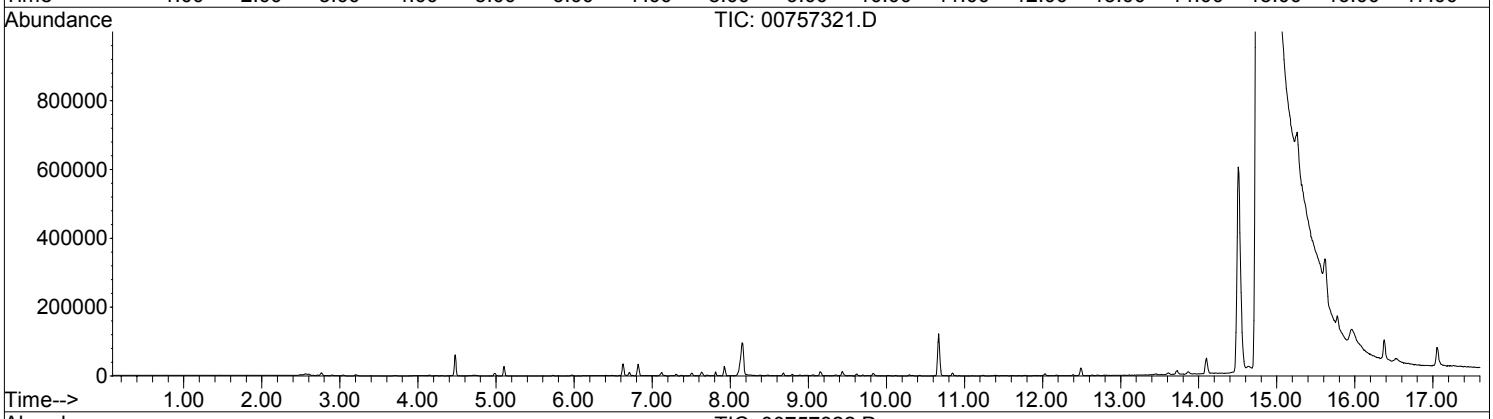
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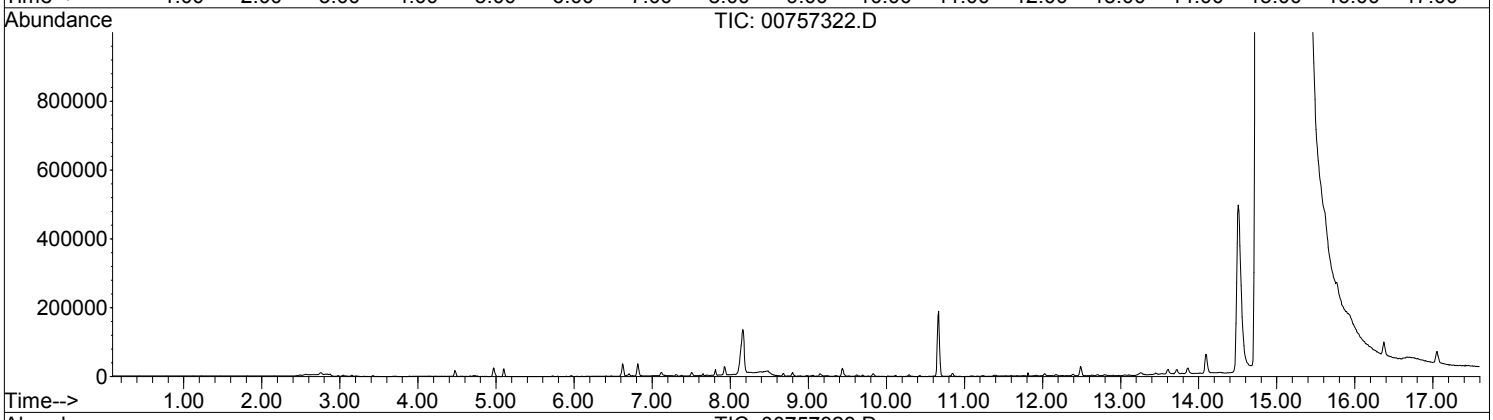
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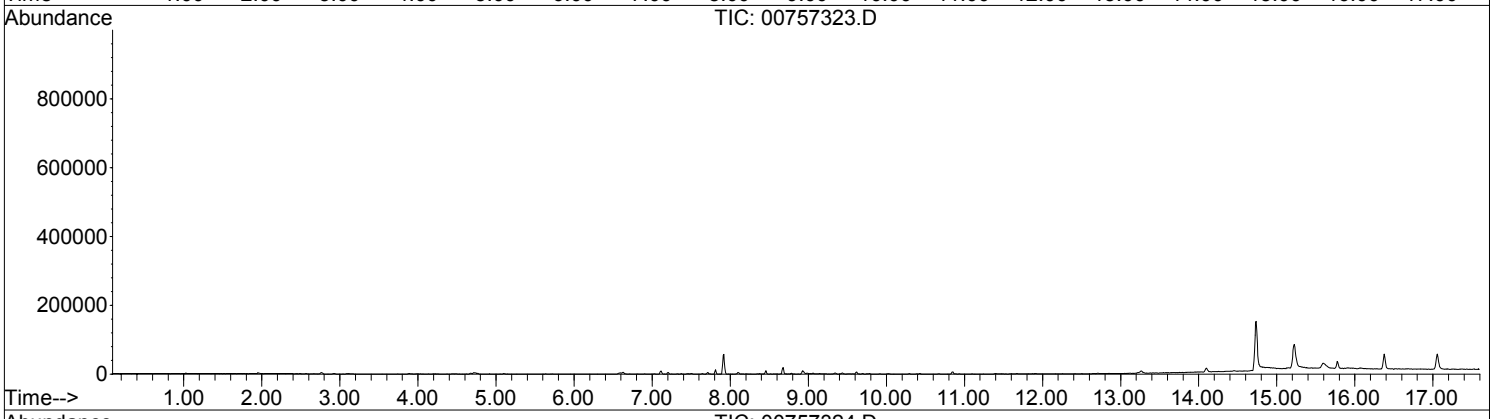
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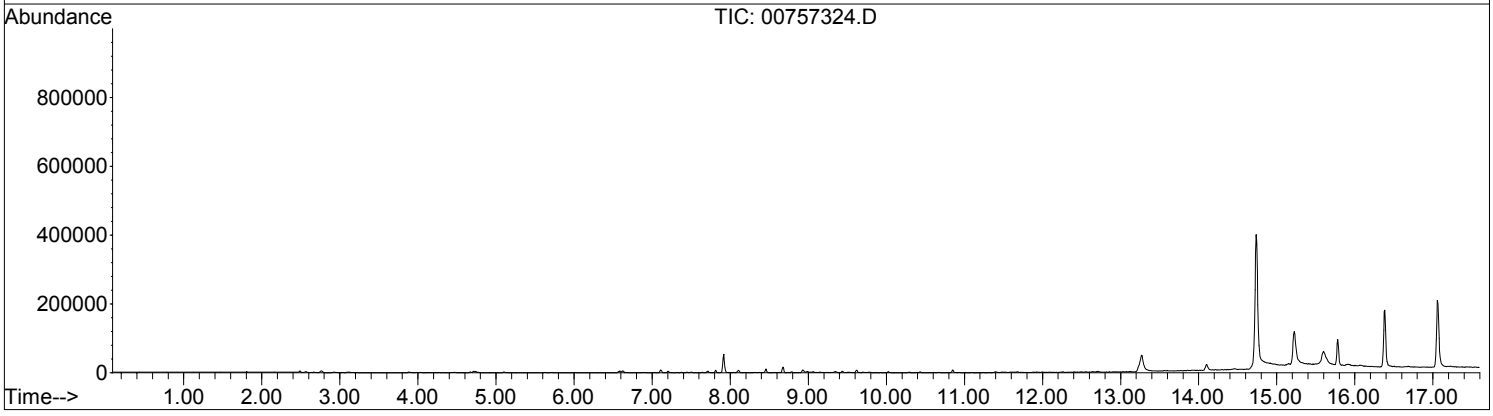
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AMPLIFIED GEOCHEMICAL IMAGING, LLC

Laboratory Report

Site: Comal and San Marcos Rivers

Prepared for:

SWCA Environmental Consultants
6200 UTSA Boulevard
Suite 102
San Antonio, TX
UNITED STATES

Prepared on:
July 02, 2015

Project Summary and Objective

Amplified Geochemical Imaging, LLC. (AGI) provided the AGI Environmental Survey used at:

Comal and San Marcos Rivers

The service provided by AGI included delivery of the required quantity of AGI Universal Samplers, analysis by the method described below for the requested organic compounds, reporting of the data, and contour mapping (as needed).

This report includes results for only the samples noted under the Laboratory Sample Report section. If contour maps are part of the project deliverable, the maps will be prepared and issued under a separate report cover, upon receipt of a usable sitemap (electronic) and compound choices for contouring.

Written/submitted by:

Jim E Whetzel

Project Manager

Reviewed/approved by:

Don D'Apolito

Project Manager

Analytical data approved by:

Jasmine Smith

Chemist

Quality Assurance Statement

The AGI Laboratory, at Amplified Geochemical Imaging's facility in Elkton, MD USA, operates under the guidelines of its ISO Standard 17025 DoD ELAP accreditation, and its Quality Assurance Manual, Operating Procedures, and Methods (SPG-SOP-0462).

For this project, the analytical method, results, and observations reported do [ ] do not [√] fall within the scope of AGI's ISO 17025 accreditation.

Screening/Concentration Method

The AGI Universal Samplers are analyzed at AGI's fixed laboratory using thermal desorption-gas chromatography/mass spectrometry (TD-GC/MS) instrumentation following U.S. EPA Method 8260 (SPG-WI-0292) which includes the following:

- **BFB Tuning Frequency:** A BFB tune is analyzed at the start of each analytical run and after every 30 samples.
- **Initial Calibration:** A minimum of a five point calibration curve is analyzed prior to the analysis of samples.
- **Linearity of Target Compounds:** If the RSD of any target analyte is less than or equal to 25% then average response factor can be used for quantitation. If the RSD exceeds 25% for a target compound a regression equation can be used for quantitation.
- **Continuing Calibration Verification:** After every 10 samples, and at the end of each analytical batch, and a second-source Reference Standard is analyzed near the mid point of the calibration curve. The acceptance criteria for all target analytes in the reference standards are +/- 50% of the true value.
- **Method Blank:** Analyzed prior to the analysis of field samples and every 30 samples.

Note: Analyte levels reported for the field-deployed AGI Universal Samplers that exceed trip and method blank levels, and/or the reporting limit, are more likely to have originated from on-site sources.

Media Sampled:	WATER
Chemist - sample analysis:	Kelly J Stringham
Chemist - data processor:	Fatima Niazi
Chemist - data review:	Jasmine Smith

Method deviations: None.

Please note that data file names ending with R are rerun samples using the second pair of sorbers, in which the original results were not reported. Data file names ending in D are duplicate analysis results for the second set of sorbers from the same sampler, and are reported.

Additional Report Information

- Comments
- Laboratory Sample Report
- Chain of Custody
- Installation and Retrieval Log
- Analytical Results and Key
- Concentration Calculation Method Summary (as applicable)
- Total Ion Chromatograms

Project Specific Comments

In addition to AGI's standard VOC/ SVOC target compounds pesticides and additional PAH compounds were included in the target compound list. These additional compounds were quantified using a single level calibration standard. Analytical results for these additional compounds were reported only in relative mass values.

Survey period [1]	Samplers were installed on June 1, 2015 and retrieved on June 15, 2015 for an exposure period of 14 days.
Tamper seal intact:	Yes
Date received:	6/18/2015 10:30 AM By: Clarence W Whigham
COC returned:	Yes

Comments:

Upon retrieval several samples were placed in incorrect sample vials. New labels were placed on vials to indicate actual sample.
Sample 759950 was returned loose in the box. Sample was noted as a trip blank on the installation log, but not on chain of custody. Samples was not analyzed.

1 - Installation start to end of retrieval, as reported. See installation and retrieval log for individual deployment and retrieval dates and times (i.e., sampler exposure time).

General Comments

Analytical QA/QC

Laboratory instrumentation consists of gas chromatographs equipped with mass selective detectors, coupled with automated thermal desorption units. Sample preparation involves cutting the tip off the bottom of the AGI Universal Sampler, and transferring one or more "sorbers" to a thermal desorption tube for analysis. The insertion/retrieval cord prevents soil, water and other interferences from coming in contact with the adsorbent. No further sample preparation is required. Any replicate sorbers not consumed in the initial analysis will be discarded fifteen (15) days from the date of the laboratory report.

Data are archived and stored in a secure manner as per AGI's Quality Assurance program (SPG-SOP-0462).

Total petroleum hydrocarbons (TPH), gasoline-range petroleum hydrocarbons (GRPH), and/or diesel range petroleum hydrocarbons (DRPH), when reported, are calculated using the area under the peaks observed in m/z 55 and 57 selected ion chromatograms. Quantitation of the mass values was performed using the response factor for a specific alkane (present in the calibration standards). TPH values include the entire chromatogram and provide estimates for aliphatic hydrocarbon ranges of C4 to C20. GRPH and DRPH include only the relevant regions of the chromatograms and provide estimates for C4 to C10 and C10 to C20 aliphatic hydrocarbons, respectively.

Trip blanks were provided to document potential exposures that were not part of the signal of interest (e.g., impact during sampler shipment, installation and/or retrieval, and storage). The trip blanks are identically manufactured and packaged AGI Universal Samplers to those samplers deployed in the field . The trip blanks remain unopened during all phases of the project. Levels reported on the trip blanks may indicate potential impact to the samplers other than the contaminant source of interest.

Unresolved peak envelopes (UPEs) are represented as a series of compound peaks clustered together around a central gas chromatograph elution time in the total ion chromatogram. UPEs may be indicative of complex fluid mixtures. UPEs observed early in the chromatograms are considered to indicate presence of more volatile fluids, while UPEs observed later in the chromatogram may indicate the presence of less volatile fluids. Multiple UPEs may indicate the presence of multiple complex fluids.

Total ion chromatograms (TICs) are included in the Attachments. The eight-digit serial number of each sampler is incorporated in the TIC identification (e.g., 12345678.D represents AGI Universal Sampler 12345678).

Soil Gas Sampling

For soil gas sampling, the AGI Environmental Survey reports mass levels migrating through the open pore spaces of the soil and diffusing through the sampler membrane for sorption by the engineered, hydrophobic adsorbents, housed within the membrane tube. During the migration of the soil gas away from the source to the AGI Universal Sampler, the vapors are subject to a variety of attenuation factors. The soil gas masses reported on the samplers compare favorably with the concentrations reported in the soil or groundwater (e.g., where soil gas levels are reported at greater levels to other sampled locations on the site, the matrix data should reveal the same pattern, and vice versa). However, due to a variety of factors, a perfect comparison between matrix data and soil gas levels can rarely be achieved.

Soil gas concentrations (µg/m3) are calculated following the method described in the Additional Report Information section.

Soil gas signals reported by this method cannot be correlated specifically to soil adsorbed, groundwater, and /or free-phase contamination. The soil gas signal reported from each AGI Universal Sampler can evolve from all of these sources. Differentiation between soil and groundwater contamination can only be achieved with prior knowledge of the site history (i.e., the site is known to have groundwater contamination only).

Air Sampling

For indoor, outdoor, and crawlspace air sampling, the AGI Environmental Survey reports mass levels present in the air and diffusing through the sampler membrane for sorption by the engineered adsorbents housed within the membrane tube.

Air concentrations (µg/m3) are calculated following the method described in the Additional Report Information section.

Groundwater and Sediment Porewater Sampling

For groundwater and sediment porewater sampling, the AGI Environmental Survey reports the mass levels of compounds present in the water which, when coming in contact with the sampler membrane, partitions out of solution, and diffuses through the sampler membrane for sorption by the engineered adsorbents.

Water concentrations (µg/L) are calculated using the quantified mass, exposure period and the compound specific uptake rate. The rates were measured under controlled experimental conditions. The uptake rates are corrected for water pressure (depth of the AGI Universal Sampler below the water table), water temperature and the aquifer flow rate. For sediment porewater, the uptake rate is corrected for the reduced colume of water in the sediment, by multiplying the uptake rate by the pore water fraction.

LABORATORY SAMPLE REPORT

Project: ENV 01387 **Site Name: Comal and San Marcos Rivers** **Module Type: SPG0008**

Module ID	Sample Type	Field ID
00759935	FIELD_SAMPLE	HCS430
00759936	FIELD_SAMPLE	HCS410
00759937	FIELD_SAMPLE	HCS420
00759938	FIELD_SAMPLE	HCS440
00759939	FIELD_SAMPLE	FDHCS440
00759940	FIELD_SAMPLE	HCS460
00759941	FIELD_SAMPLE	HSM410
00759942	FIELD_SAMPLE	HSM420
00759943	FIELD_SAMPLE	HSM430
00759944	FIELD_SAMPLE	FDHSM430
00759945	FIELD_SAMPLE	HSM440
00759946	FIELD_SAMPLE	HSM450
00759947	FIELD_SAMPLE	HSM460
00759948	FIELD_SAMPLE	HSM470
00759949	TRIP_BLANK	TB09
00759950	UNUSED	Not Provided

Total # "FIELD SAMPLES"	Total # "TRIP BLANKS"	Total # "UNUSED"	Total # "LOST"
14	1	1	0

Duplicate samples: 0

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AGI Universal Passive Sampler Chain of Groundwater Sampling

Production Order #: 01387

Customer Name: SWCA Environmental Consultants
Address: 6200 UTSA Boulevard
Suite 102

San Antonio, TX 78249
USA

Site Name: Comal and San Marcos Rivers
Site Address:

Project Manager:

Serial # of Samplers Shipped
00759935 - 00759950

# of Samplers for Installation 14.00
Total Samplers Shipped 16.00
Total Samplers Received 16
Total Samplers Installed 14

# of Trip Blanks 2
Pieces
Pieces
Pieces

Vial for 00759947 lost in field, Used vial from extra sampler #00759950

00759950 enclosed in box ~~out~~ loose, not in a vial

Serial # of Trip Blanks (Client Decides)

00759949		

Prepared By: [signature]

Verified By: Lisa Bozzette

Is Concurrent water sampling planned this monitoring period? YES (NO)

Scheduled Sampling Date:

Installation Performed By:
Name: Jennifer Moreland / Brittany Rios
Company: SWCA

Installation Start Date / Time: 6/1/15 1036
Installation Complete Date / Time 6/1/15 1559

Retrieval Performed By:
Name: Jennifer Moreland / Brittany Rios
Company: SWCA

Retrieval Start Date / Time: 6/15/15 10:26
Retrieval Complete Date / Time 6/15/15 14:01

Total Samplers Retrieved: 14
Total Samplers Lost In Field: 0
Total Unused Samplers Returned: 1

Relinquished By	[signature]	**Date/Time** 5-14-15 9:00AM	**Received By:**	[signature]	**Date/Time** 5/18/15 14:00
Company:	AGI		**Company:**	SWCA	
Relinquished By	[signature]	**Date/Time** 6/15/15 16:15	**Received By:**	Clarence Whigham	**Date/Time** 6/18/15 10:30
Company:	SWCA		**Company:**	AGI	

~~# of vials~~ labeling of vials with site numbers ~~me~~confused in field. Seals w/ site numbers added to clarify incase of any issues. Numbers on installation log correct ~Jen

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ph: 302-266-2428

AGI Project No. ENV 01387
Site Name: Comal and San Marcos Rovers
Site Location:

AGI Soil Gas Sampling
Installation & Retrieval Log

Company Name: SWCA
Location: New Braunfels and San Marcos, TX
Samples collected by: Jennifer Moreland, Brittany Rios

*** Optional or as needed**

					WATER QUALITY MONITORING					
SAMPLER SERIAL NO.	**WELL ID**	**SAMPLE TYPE (Field Sample, Trip Blank, Field Blank, etc.)**	**INSTALLATION DATE & TIME MM/DD/YYYY HH:MM (24 Hour) ex. 12/30/2000 13:00**	**RETRIEVAL DATE & TIME MM/DD/YYYY HH:MM (24 Hour) ex. 12/30/2000 15:00**	**INSTALLATION DEPTH FROM TOP OF CASING (feet)**	**DEPTH TO WATER FROM TOP OF CASING (feet)**	**SCREENED INTERVAL FROM TOP OF CASING (feet)**	**WATER TEMPERATURE AT MODULE DEPTH (deg C)**	**FLOW RATE THROUGH SCREEN: HIGH OR LOW (HIGH = flow > than 10 m/day; LOW = flow < 10 m/day)**	**OBSERVATIONS/COMMENTS* (e.g., observations, location description, missing, pulled from well, etc. - as needed)**
00759935	HCS430	FIELD_SAMPLE	6/1/15 10:36	6/15/15 10:26	3.25			24	HIGH	Recent heavy rain events, both river syst
00759936	HCS410	FIELD_SAMPLE	6/1/15 11:03	6/15/15 10:39	1.1			24	HIGH	Depths are from water surface to top of s
00759937	HCS420	FIELD_SAMPLE	6/1/15 11:30	6/15/15 10:57	2.1			24	HIGH	
00759938	HCS440	FIELD_SAMPLE	6/1/15 11:44	6/15/15 11:07	1.9			24	HIGH	
00759939	FDHCS440	FIELD_DUPLICATE	6/1/15 11:44	6/15/15 11:07	1.9			24	HIGH	
00759940	HCS460	FIELD_SAMPLE	6/1/15 11:58	6/15/15 11:17	2.65			24	HIGH	
00759941	HSM410	FIELD_SAMPLE	6/1/15 13:47	6/15/15 12:14	1.5			23	HIGH	
00759942	HSM420	FIELD_SAMPLE	6/1/15 13:58	6/15/15 12:26	2.9			23	HIGH	
00759943	HSM430	FIELD_SAMPLE	6/1/15 14:08	6/15/15 12:34	0.55			23	HIGH	
00759944	FDHSM430	FIELD_DUPLICATE	6/1/15 14:08	6/15/15 12:34	0.55			23	HIGH	
00759945	HSM440	FIELD_SAMPLE	6/1/15 14:23	6/15/15 12:47	3.75			23	HIGH	
00759946	HSM450	FIELD_SAMPLE	6/1/15 14:46	6/15/15 13:30	2.1			23	HIGH	
00759947	HSM460	FIELD_SAMPLE	6/1/15 15:34	6/15/15 13:43	0.8			23	HIGH	
00759948	HSM470	FIELD_SAMPLE	6/1/15 15:59	6/15/15 14:01	1.8			23	HIGH	
00759949	TB09	TRIP_BLANK	6/1/15 10:36	6/15/15 14:01	NA					
00759950		TRIP_BLANK								

SPG-FCD-8930 Water R4

AGI Soil Gas Sampling
Installation & Retrieval L

*** Optional or as needed**

	YES / NO	
SAMPLER SERIAL NO.	**EVIDENCE OF LIQUID PETROLEUM HYDROCARBONS?**	**ODOR ?**
00759935	ems up	
00759936	ampler	
00759937		
00759938		
00759939		
00759940		
00759941		
00759942		
00759943		
00759944		
00759945		
00759946		
00759947		
00759948		
00759949		
00759950		

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759935 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS430
Installation Date: 6/1/2015 10:36:00AM
Retrieval Date: 6/15/2015 10:26:00AM Date Analyzed: 6/24/2015 4:48:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.60**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759935 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS430
Installation Date: 6/1/2015 10:36:00AM
Retrieval Date: 6/15/2015 10:26:00AM Date Analyzed: 6/24/2015 4:48:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.54**	**0.50**
BTEX		<0.02	0.02
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759936 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS410
Installation Date: 6/1/2015 11:03:00AM
Retrieval Date: 6/15/2015 10:39:00AM Date Analyzed: 6/24/2015 2:47:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	**67-66-3**	**0.03**	**0.02**
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.14**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759936 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS410
Installation Date: 6/1/2015 11:03:00AM
Retrieval Date: 6/15/2015 10:39:00AM Date Analyzed: 6/24/2015 2:47:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.66**	**0.50**
BTEX		<0.02	0.02
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759937 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS420
Installation Date: 6/1/2015 11:30:00AM
Retrieval Date: 6/15/2015 10:57:00AM Date Analyzed: 6/24/2015 9:19:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.20**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759937 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS420
Installation Date: 6/1/2015 11:30:00AM
Retrieval Date: 6/15/2015 10:57:00AM Date Analyzed: 6/24/2015 9:19:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759938 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS440
Installation Date: 6/1/2015 11:44:00AM
Retrieval Date: 6/15/2015 11:07:00AM Date Analyzed: 6/24/2015 4:18:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.40**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759938 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS440
Installation Date: 6/1/2015 11:44:00AM
Retrieval Date: 6/15/2015 11:07:00AM Date Analyzed: 6/24/2015 4:18:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.72**	**0.50**
BTEX		<0.02	0.02
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
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SAMPLER ID: 00759939 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHCS440
Installation Date: 6/1/2015 11:44:00AM
Retrieval Date: 6/15/2015 11:07:00AM Date Analyzed: 6/24/2015 10:49:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.42**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759939 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHCS440
Installation Date: 6/1/2015 11:44:00AM
Retrieval Date: 6/15/2015 11:07:00AM Date Analyzed: 6/24/2015 10:49:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
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FOR: SWCA Environmental Consultants
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SAMPLER ID: 00759940 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS460
Installation Date: 6/1/2015 11:58:00AM
Retrieval Date: 6/15/2015 11:17:00AM Date Analyzed: 6/24/2015 10:19:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.26**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	**108-38-3/106-42-3**	**0.03**	**0.02**
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
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SAMPLER ID: 00759940 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS460
Installation Date: 6/1/2015 11:58:00AM
Retrieval Date: 6/15/2015 11:17:00AM Date Analyzed: 6/24/2015 10:19:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**1.90**	**0.50**
BTEX		**0.03**	**0.02**
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
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SAMPLER ID: 00759941 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM410
Installation Date: 6/1/2015 1:47:00PM
Retrieval Date: 6/15/2015 12:14:00PM Date Analyzed: 6/24/2015 3:18:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	127-18-4	<0.02	0.02
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759941 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM410
Installation Date: 6/1/2015 1:47:00PM
Retrieval Date: 6/15/2015 12:14:00PM Date Analyzed: 6/24/2015 3:18:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.60**	**0.50**
BTEX		<0.02	0.02
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759942 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM420
Installation Date: 6/1/2015 1:58:00PM
Retrieval Date: 6/15/2015 12:26:00PM Date Analyzed: 6/24/2015 8:49:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.14**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759942 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM420
Installation Date: 6/1/2015 1:58:00PM
Retrieval Date: 6/15/2015 12:26:00PM Date Analyzed: 6/24/2015 8:49:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
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USA

SAMPLER ID: 00759943 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM430
Installation Date: 6/1/2015 2:08:00PM
Retrieval Date: 6/15/2015 12:34:00PM Date Analyzed: 6/24/2015 3:48:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**1.98**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759943 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM430
Installation Date: 6/1/2015 2:08:00PM
Retrieval Date: 6/15/2015 12:34:00PM Date Analyzed: 6/24/2015 3:48:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.96**	**0.50**
BTEX		<0.02	0.02
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
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SAMPLER ID: 00759944 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHSM430
Installation Date: 6/1/2015 2:08:00PM
Retrieval Date: 6/15/2015 12:34:00PM Date Analyzed: 6/24/2015 7:18:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**2.35**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759944 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHSM430
Installation Date: 6/1/2015 2:08:00PM
Retrieval Date: 6/15/2015 12:34:00PM Date Analyzed: 6/24/2015 7:18:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.54**	**0.50**
BTEX		<0.02	0.02
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
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USA

SAMPLER ID: 00759945 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM440
Installation Date: 6/1/2015 2:23:00PM
Retrieval Date: 6/15/2015 12:47:00PM Date Analyzed: 6/24/2015 8:19:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.19**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759945 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM440
Installation Date: 6/1/2015 2:23:00PM
Retrieval Date: 6/15/2015 12:47:00PM Date Analyzed: 6/24/2015 8:19:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.68**	**0.50**
BTEX		<0.02	0.02
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
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SAMPLER ID: 00759946 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM450
Installation Date: 6/1/2015 2:46:00PM
Retrieval Date: 6/15/2015 1:30:00PM Date Analyzed: 6/24/2015 6:48:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.09**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759946 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM450
Installation Date: 6/1/2015 2:46:00PM
Retrieval Date: 6/15/2015 1:30:00PM Date Analyzed: 6/24/2015 6:48:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 Executive Drive, Suite 1
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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759947 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM460
Installation Date: 6/1/2015 3:34:00PM
Retrieval Date: 6/15/2015 1:43:00PM Date Analyzed: 6/24/2015 11:19:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.15**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759947 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM460
Installation Date: 6/1/2015 3:34:00PM
Retrieval Date: 6/15/2015 1:43:00PM Date Analyzed: 6/24/2015 11:19:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.67**	**0.50**
BTEX		<0.02	0.02
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759948 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM470
Installation Date: 6/1/2015 3:59:00PM
Retrieval Date: 6/15/2015 2:01:00PM Date Analyzed: 6/24/2015 9:49:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.18**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	**108-38-3/106-42-3**	**0.03**	**0.02**
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759948 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM470
Installation Date: 6/1/2015 3:59:00PM
Retrieval Date: 6/15/2015 2:01:00PM Date Analyzed: 6/24/2015 9:49:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.60**	**0.50**
BTEX		**0.03**	**0.02**
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759949 TRIP_BLANK Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: TB09
Installation Date: 6/1/2015 10:36:00AM
Retrieval Date: 6/15/2015 2:01:00PM Date Analyzed: 6/24/2015 7:48:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	127-18-4	<0.02	0.02
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01387
SITE NAME: Comal and San Marcos Rivers
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00759949 TRIP_BLANK Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: TB09
Installation Date: 6/1/2015 10:36:00AM
Retrieval Date: 6/15/2015 2:01:00PM Date Analyzed: 6/24/2015 7:48:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150623-3**
Reviewer: Jasmine Smith

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE 19702
SWCA ENVIRONMENTAL CONSULTANTS, TX
STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
COMAL AND SAN MARCOS RIVERS
ORDER # 01387

									estimated									
DATAFILE	FIELD	DATE/ TIME	DATE/ TIME	DATE/ TIME	DATE/ TIME													
NAME	ID	INSTALLED	RETRIEVED	RECEIVED	ANALYZED	DF	TPH, ug/L	MTBE, ug/L	t12DCE, ug/L	11DCA, ug/L	c12DCE, ug/L	CHCl3, ug/L	111TCA, ug/L	12DCA, ug/L	BENZ, ug/L	CCl4, ug/L
RL =							0.053	0.013	0.007	0.007	0.007	0.007	0.005	0.008	0.006	0.005
00759935	HCS430	6/1/2015 CT	6/15/2015 CT	6/18/2015 ET	6/24/2015 ET	1	0.054	<0.013	<0.007	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.004
00759936	HCS410	6/1/2015 CT	6/15/2015 CT	6/18/2015 ET	6/24/2015 ET	1	0.059	<0.013	<0.007	<0.007	<0.007	0.012	<0.005	<0.008	<0.006	<0.004
00759937	HCS420	6/1/2015 CT	6/15/2015 CT	6/18/2015 ET	6/24/2015 ET	1	<0.053	<0.013	<0.007	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.004
00759938	HCS440	6/1/2015 CT	6/15/2015 CT	6/18/2015 ET	6/24/2015 ET	1	0.062	<0.013	<0.007	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.004
00759939	FDHCS440	6/1/2015 CT	6/15/2015 CT	6/18/2015 ET	6/24/2015 ET	1	<0.053	<0.013	<0.007	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.004
00759940	HCS460	6/1/2015 CT	6/15/2015 CT	6/18/2015 ET	6/24/2015 ET	1	0.093	<0.013	<0.007	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.004
00759941	HSM410	6/1/2015 CT	6/15/2015 CT	6/18/2015 ET	6/24/2015 ET	1	0.058	<0.013	<0.008	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.005
00759942	HSM420	6/1/2015 CT	6/15/2015 CT	6/18/2015 ET	6/24/2015 ET	1	<0.054	<0.013	<0.008	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.005
00759943	HSM430	6/1/2015 CT	6/15/2015 CT	6/18/2015 ET	6/24/2015 ET	1	0.071	<0.013	<0.008	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.005
00759944	FDHSM430	6/1/2015 CT	6/15/2015 CT	6/18/2015 ET	6/24/2015 ET	1	0.056	<0.013	<0.008	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.005
00759945	HSM440	6/1/2015 CT	6/15/2015 CT	6/18/2015 ET	6/24/2015 ET	1	0.061	<0.013	<0.008	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.005
00759946	HSM450	6/1/2015 CT	6/15/2015 CT	6/18/2015 ET	6/24/2015 ET	1	<0.054	<0.013	<0.008	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.005
00759947	HSM460	6/1/2015 CT	6/15/2015 CT	6/18/2015 ET	6/24/2015 ET	1	0.061	<0.013	<0.008	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.005
00759948	HSM470	6/1/2015 CT	6/15/2015 CT	6/18/2015 ET	6/24/2015 ET	1	0.058	<0.013	<0.008	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.005
00759949	TB09	6/1/2015 CT	6/15/2015 CT	6/18/2015 ET	6/24/2015 ET	1	<0.053	<0.013	<0.007	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.005
BLK_ENV-261689	Method Blnak	6/1/2015 CT	6/15/2015 CT	6/18/2015 ET	6/24/2015 ET	1	<0.053	<0.013	<0.007	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.005
BLK_ENV-261869	Method Blnak	6/1/2015 CT	6/15/2015 CT	6/18/2015 ET	6/25/2015 ET	1	<0.053	<0.013	<0.007	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.005

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE 19702
SWCA ENVIRONMENTAL CONSULTANTS, TX
STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
COMAL AND SAN MARCOS RIVERS
ORDER # 01387

DATAFILE	FIELD														
NAME	ID	TCE, ug/L	112TCA, ug/L	TOL, ug/L	OCT, ug/L	PCE, ug/L	CIBENZ, ug/L	1112TetCA, ug/L	ETBENZ, ug/L	mpXYL, ug/L	oXYL, ug/L	1122TetCA, ug/L	135TMB, ug/L	124TMB, ug/L	13DCB, ug/L
RL =		0.006	0.009	0.006	0.005	0.005	0.006	0.007	0.005	0.005	0.005	0.010	0.005	0.005	0.006
00759935	HCS430	<0.006	<0.009	<0.005	<0.004	0.101	<0.006	<0.007	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.006
00759936	HCS410	<0.006	<0.009	<0.005	<0.004	0.028	<0.006	<0.007	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.006
00759937	HCS420	<0.006	<0.009	<0.005	<0.004	0.038	<0.006	<0.007	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.006
00759938	HCS440	<0.006	<0.009	<0.005	<0.004	0.071	<0.006	<0.007	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.006
00759939	FDHCS440	<0.006	<0.009	<0.005	<0.004	0.075	<0.006	<0.007	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.006
00759940	HCS460	<0.006	<0.009	<0.005	<0.004	0.048	<0.006	<0.007	<0.005	0.007	<0.005	<0.010	<0.005	<0.005	<0.006
00759941	HSM410	<0.006	<0.010	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	<0.005	<0.005	<0.011	<0.005	<0.005	<0.006
00759942	HSM420	<0.006	<0.010	<0.006	<0.005	0.030	<0.006	<0.007	<0.005	<0.005	<0.005	<0.011	<0.005	<0.005	<0.006
00759943	HSM430	<0.006	<0.010	<0.006	<0.005	0.299	<0.006	<0.007	<0.005	<0.005	<0.005	<0.011	<0.005	<0.005	<0.006
00759944	FDHSM430	<0.006	<0.010	<0.006	<0.005	0.349	<0.006	<0.007	<0.005	<0.005	<0.005	<0.011	<0.005	<0.005	<0.006
00759945	HSM440	<0.006	<0.010	<0.006	<0.005	0.039	<0.006	<0.007	<0.005	<0.005	<0.005	<0.011	<0.005	<0.005	<0.006
00759946	HSM450	<0.006	<0.010	<0.006	<0.005	0.020	<0.006	<0.007	<0.005	<0.005	<0.005	<0.011	<0.005	<0.005	<0.006
00759947	HSM460	<0.006	<0.010	<0.006	<0.005	0.031	<0.006	<0.007	<0.005	<0.005	<0.005	<0.011	<0.005	<0.005	<0.006
00759948	HSM470	<0.006	<0.010	<0.006	<0.005	0.037	<0.006	<0.007	<0.005	0.007	<0.005	<0.011	<0.005	<0.005	<0.006
00759949	TB09	<0.006	<0.009	<0.006	<0.004	<0.005	<0.006	<0.007	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.006
BLK_ENV-261689	Method Blnak	<0.006	<0.009	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.006
BLK_ENV-261869	Method Blnak	<0.006	<0.009	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.006

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE 19702
SWCA ENVIRONMENTAL CONSULTANTS, TX
STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
COMAL AND SAN MARCOS RIVERS
ORDER # 01387

						estimated		estimated	estimated	estimated	estimated
DATAFILE	FIELD										
NAME	ID	14DCB, ug/L	12DCB, ug/L	UNDEC, ug/L	NAPH, ug/L	TRIDEC, ug/L	2MeNAPH, ug/L	Acenaphthylene, ug/L	PENTADEC, ug/L	Acenaphthene, ug/L	Fluorene, ug/L
RL =		0.006	0.006	0.020	0.016	0.020	0.013	0.014	0.020	0.014	0.014
00759935	HCS430	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00759936	HCS410	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00759937	HCS420	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00759938	HCS440	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00759939	FDHCS440	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00759940	HCS460	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00759941	HSM410	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00759942	HSM420	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00759943	HSM430	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00759944	FDHSM430	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00759945	HSM440	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00759946	HSM450	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00759947	HSM460	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00759948	HSM470	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00759949	TB09	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
BLK_ENV-261689	Method Blnak	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
BLK_ENV-261869	Method Blnak	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014

KEY TO DATA TABLE

UNITS

µg	micrograms, relative mass value
µg/m^3	micrograms per cubic meter; estimated soil gas concentration
µg/L	micrograms per Liter; calculated water concentration

DATA QUALIFIERS

>	greater than; value exceeds calibration range, estimated value
<	less than; compound value is below the LOD and RL
J	mass value below LOQ or RL, but above LOD, estimated mass value
E	mass value exceeds upper calibration level, estimated mass value
Q	one or more quality control parameters failed for the compound

ABBREVIATIONS

AVG RL	average reporting limit; calculated based on individual field sample RLs
LOD	limit of detection
LOQ	limit of quantification
MDL	method detection limit
RL	reporting limit

1112TetCA	1,1,1,2-tetrachloroethane
111TCA	1,1,1-trichloroethane
1122TetCA	1,1,2,2-tetrachloroethane
112TCA	1,1,2-trichloroethane
11DCA	1,1-dichloroethane
11DCE	1,1-dichloroethene
124TMB	1,2,4-trimethylbenzene
12DCA	1,2-dichloroethane
12DCB	1,2-dichlorobenzene
135TMB	1,3,5-trimethylbenzene
13DCB	1,3-dichlorobenzene
14DCB	1,4-dichlorobenzene
2MeNAPH	2-methyl naphthalene
BENZ	benzene
BTEX	combined masses of benzene, toluene, ethylbenzene, and total xylenes (Gasoline Range Aromatics)
C11,C13&C15	combined masses of undecane, tridecane, and pentadecane (C11+C13+C15) (Diesel Range Alkanes)
c12DCE	cis-1,2-dichloroethene
CCl4	carbon tetrachloride
CHC13	chloroform
ClBENZ	chlorobenzene
ct12DCE	cis- & trans-1,2-dichloroethene
EtBENZ	ethylbenzene
mpXYL	m-, p-xylene
MTBE	methyl t-butyl ether
NAPH	naphthalene
OCT	octane
oXYL	o-xylene
PCE	tetrachloroethene
PENTADEC	pentadecane
PHEN	phenanthrene
t12DCE	trans-1,2-dichloroethene
TCE	trichloroethene
TMBs	combined masses of 1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene
TOL	toluene
TPH	total petroleum hydrocarbons
TRIDEC	tridecane
UNDEC	undecane
VC	vinyl chloride

SUMMARY OF SAMPLING RATE CALIBRATION FOR AGI UNIVERSAL SAMPLER IN AQUEOUS PHASES

INTRODUCTION:

The Amplified Geochemical Imaging, LLC (AGI) passive vapor sampler is designed to be used for soil gas, water, sediment pore water, and air sampling. This document describes the process used to calibrate the sampler's compound specific sampling or uptake rates in aqueous phases.

Sampling rates are measured following AGI's "Standard Practice for Determining the Sampling Rate of Passive Diffusion Samplers in Various Environmental Media": SPG-SOP-0493. Rates are used to calculate dissolved phase concentrations of volatile and semi-volatile contaminants in water. The calibration process is summarized in three parts: Part 1: shallow water, Part 2: deep water, and Part 3: sediment.

PURPOSE:

The purpose of this document is to:

1. Summarize the test protocol,
2. Summarize the methodology for analysis of data,
3. Present general results for generating concentration calibration of the AGI Universal Sampler

Principle of Operation of the AGI Samper

The AGI Universal Sampler is designed with solid adsorbents enclosed inside a tubular microporous PTFE membrane. When placed in water, the pores and hydrophobic nature of the PTFE keep liquid water from entering the membrane until a water head of about 34 feet is reached. The membrane will not keep water vapor from entering but the adsorbents are very hydrophobic and through testing validated to be unaffected by this moisture vapor. In shallow water, <34', volatile and semi-volatile compounds will partition from the dissolved water into the air phase in the PTFE membrane according to Henry's Law. This partitioning is instantaneous and within seconds-minutes, the compound is adsorbed by the adsorbent inside the sealed tube. Because the diffusivity in air is about 10,000 times higher than the diffusivity in water, the sampling rate is controlled by the water contact area of the membrane that allows the Henry's Law effect to occur. This contact area is set by the membrane diameter and length of the sealed tube, which is fixed in AGI's manufacturing process.

Henry's law as well as diffusivity, which are fundamentally incorporated into the sampling rate, are affected by temperature, T, and follow an Arrhenius equation H_T = Hr x exp([-Ea/R](1/Tr - 1/T)). Because a 5°C temperature change can make a 15% change in sampling rate, the temperature of the sampled water should be known to get the most precise concentration.

The membrane pore size is also small enough that colloidal particles and microbes cannot pass through the membrane. This keeps the adsorbent from getting contaminated and eliminates any need to add preservative or chilling during storage or transportation.

When the water pressure exceeds the water entry pressure of the membrane, about 34 feet of water, the water becomes in contact with the solid adsorbent. Under this condition the compounds in the water will partition from the water into the solid. The partitioning coefficient, K_{AW}, can be approximated by the octanol-water coefficient, K_{OW}, but has been measured more precisely in the lab for AGI's specific solid adsorbent. The sampling rate is the product of the sampling rate at <34' of water and the K_{AW}.

In sediment, the sampler measures pore-water concentration, which is generally agreed to be the preferred measurement as it is more indicative of bioavailability. In sediment the volumetric

availability of water to the sampler is reduced by the volume fraction solids in the sediment, which typically varies from zero to 35%, but can be has high at 73% in well packed and broad particle size distribution sediments. As a result, sampling rates in sediment are multiplied by the fraction pore water in the sediment to determine concentration.

PART 1: Calibration in shallow water

Part 1 summarizes the work in shallow water generating calibration data, evaluating the physical and chemical factors affecting the sampling rate, and measurement of the actual sampling rates or regression calibration equations needed to determine concentrations.

Sample Generation in water

In this calibration work, solutions of analytes at known concentrations were formulated in clean 4 liter smoked glass jugs by injecting microliter measured amounts of environmental standards using a calibrated syringe into pure or deionized water and stirring for a minimum of 2 hours but generally overnight. Headspace in the jugs was minimized and generally less than 1% by volume during the tests. Jugs were temperature controlled by placing them in a water filled cooler, chilled via a cooper tubing loop in the cooler. Temperature was measured with a certified digital temperature gauge and an average value used for each temperature experiment.

AGI samplers were weighted so they won't float and placed in the jugs at time zero. They were removed at various intervals to generate samples along with duplicates that showed mass increasing with exposure time. The sampler exposure time was selected to span minutes to hours and was generally reduced for high concentration tests to maintain uptake with time in roughly the linear dynamic range. Samplers were removed and dried with a paper towel and returned to their original container for analysis. They were analyzed by AGI's 8260C (SPG-WI-318 or SPG-WI-10028) method in duplicate, which is based on EPA SW846 Method 8260C.

Water samples were also taken and measured at an outside accredited lab using EPA SW846 Method 8260B. The concentrations agreed well with the calculated concentrations based on the standard certification, jug volume, and syringe injection. The variability of the outside lab 8260B values were found to be high, so for the sampling rate calculations we used the concentrations based on syringe dosing.

Calibrations were run at five concentrations, nominally at 6, 24, 118, 590, 1420 ug/L and five temperatures nominally at 5, 10, 15, 20, and 25 degrees centigrade. Samples were taken at 4 different exposure times. Samples were run in duplicate. A total of 176 data points were generated using 28 compounds from AGI's standard compounds list. Tridecane and pentadecane were not evaluated due to their very low solubility in water. In addition, another 23 compounds were tested using an 8260 liquid standard at nominal concentrations of 0.5, 1.0, 5.0, 15, 95, and 470 ug/L at a temperature typical of groundwater, 15°C. This is a living calibration and as additional data are generated, they may be qualified and added to this data set to improve the precision of the sampling rate calibration and broaden the compound list.

Key Variable Effects

As expected from theory, at short to moderate exposure times, mass will increase roughly linearly proportional to exposure time, as well as proportional to concentration, and exponentially with temperature following Arrhenius law. Temperature affects the Henry's law as well as diffusivity in water. Sampling rate is generally independent of concentration and time at mass values significantly below saturation. In the following sections we have characterized the sampling rate for each compound as affected by temperature and also developed calibrations using regression which account for the minor impact of time, and mass.

Concentration using Simple Sampling Rate Determination

A simple way to determine concentration is to measure mass on the AGI sampler, divide by exposure time, and divide by sampling rate, SR.

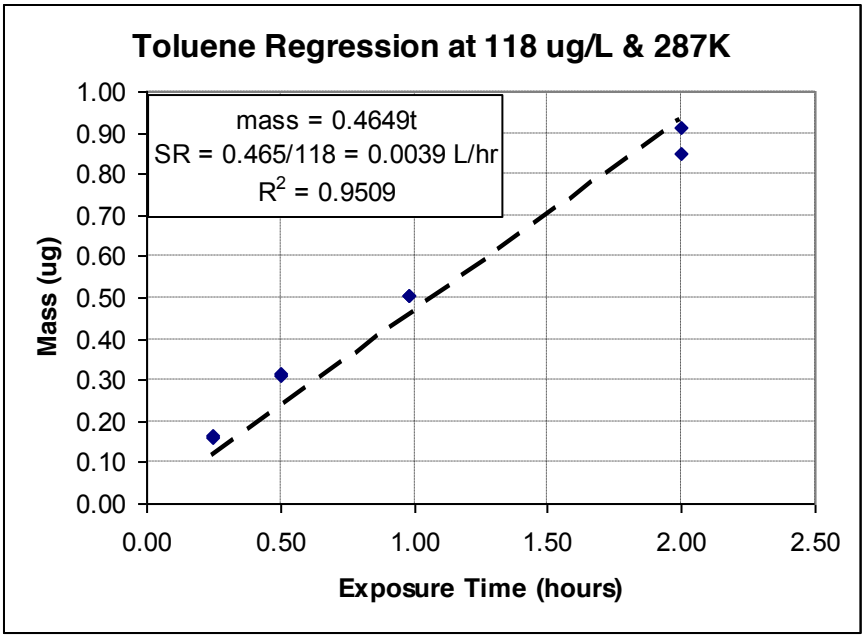
Conc [ug/L] = mass/time/SR (1)

The sampling rate can be determined via measurements of mass versus time at a known concentration and temperature according to the following modification of equation (1).

SR = mass/time/concentration (2)

Sampling rates in L/hr were determined by measuring the trend or regression mass uptake versus time and dividing by the concentration. A measurement like this will use 8 data points (4 times x 2 samples). Such a sampling rate can be measured at any concentration and temperature.

The chart to the right shows a plot of mass versus time for water at 118 ug/L and 287K (actual data from a single run). Slope of 0.465 ug/hr divided by the concentration of 118 ug/L yields a sampling rate, SR, of 0.0039 L/hr.



SR's typically range from about 0.004 to 0.007 L/hr at 15°C. Table A shows SR's measured for our standard compound list at 5 temperatures.

Rigorous Concentration using Regression

A preferred method for determining concentration that will yield improved accuracy over a wide range of concentrations, exposure times, and temperatures is to use all data in a regression analysis, which allows adjustments for the minor non-linear influences of mass and time as well as the effects of temperature. This step is done by regressing equation (1) or a universal version of equation (1):

$$Conc = (mass)^{b} / (time)^{-d} / [-SRo * \exp(-Ea/R/T)] \quad (3)$$

The subtle non-linear effects of mass and time will be evident in the deviation of coefficients b and d from 1.0. This regression generates four constants b, d, SRo, and –Ea/R by regressing ln(conc) versus ln(mass), ln(time), 1/temp. These four constants can be used to determine concentration via the equation:

$$Conc = (mass)^{b} / (time)^{-d} / [-SRo \times \exp(-Ea/R(1/T))] \quad (4)$$

Where conc is in ug/L, mass is in ug, time in hours, T in degrees Kelvin.

Equation (4) an be also expressed at a reference temperature, Tr, such as 15°C by

$$Conc = (mass)^{b} / (time)^{-d} / [-SRr \times \exp(-Ea/R(1/Tr-1/T))] \quad (5)$$

This step allows sampling rates, SRr, at any reference temperature, Tr, and for any analyte to easily be compared. The values of SRr at 293.14K can be found in Table A.

When sampling times are between 0 and 4 hours, using the 4 constant equation (5) is preferred. For concentrations from about 5 to 1500 ug/L one hour exposure times generally give the lowest error, typically with average error of 6-20% and with total error range of 12%-32%. For low concentrations where sampling times are greater than 4 hours, it is preferred to use equation (1) to avoid unrealistic effects from the coefficient d or to set d to 1.0. In such a case SR in equation (1) can be substituted with [SRr x exp(-Ea/R(1/Tr-1/T))] to use an SR representative of the well temperature, T.

The chart to the right is a plot of the calculated concentration from the 4 constant regression compared to the dosed concentration. Agreement is excellent for the 176 data points.

However, there does appear to be a slight high bias of 8.6% over the full range of this data, although it is well within acceptable limits of variability.

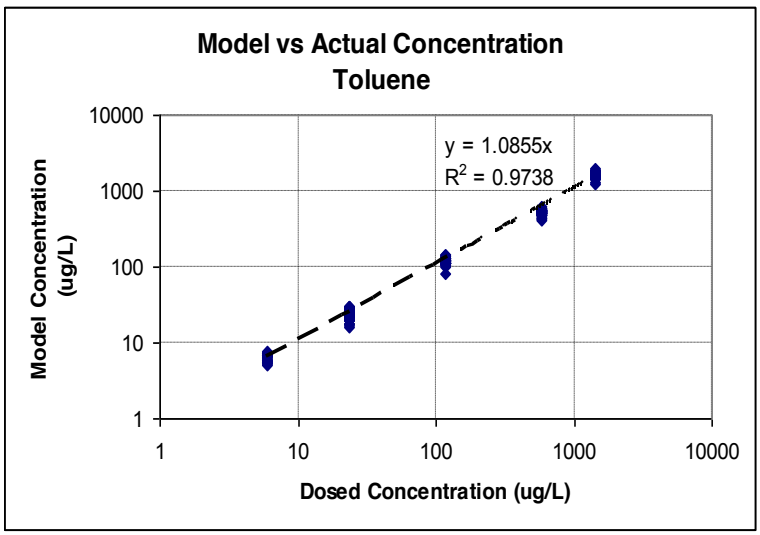


Table B shows the tabulated summary of the 4 constants regression with Rsq values and error estimates for the 4 constants for each analyte. Most regression Rsq values are 0.99 or greater for each analyte. In general, -Ea/R is about 2400+/-400, b is about 0.9, d is about -0.75, and SR(15°C) ranges from .004 L/hr to 0.007 L/hr increasing with MW of the compound.

Error Estimates

The error in the water concentration values will depend on both the error in mass from the analytical method as well as the error in the concentration calibration. Table C shows the error in the mass values from the 8260C low sensitivity method.

The standard error of the regression and standard errors of the constants can be found in table B. For each compound we have measured the error between the derived concentration and the actual concentration. The error tends to be lowest at our recommended exposure time of one hour as shown by the example for Toluene to the right.

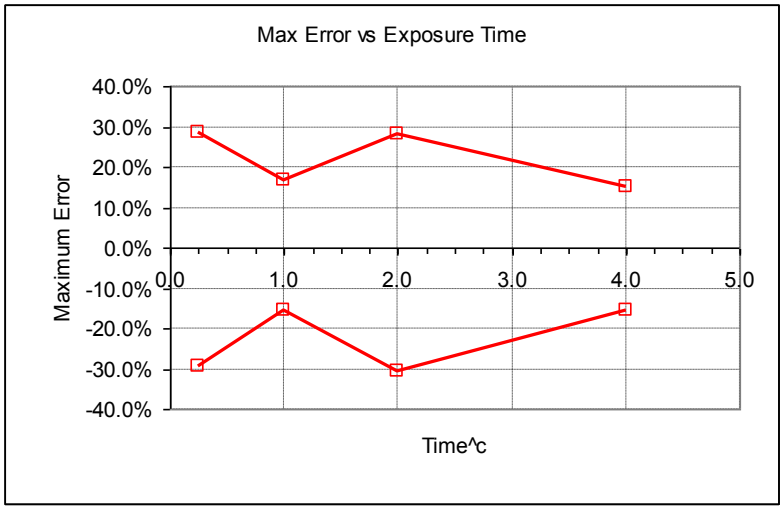
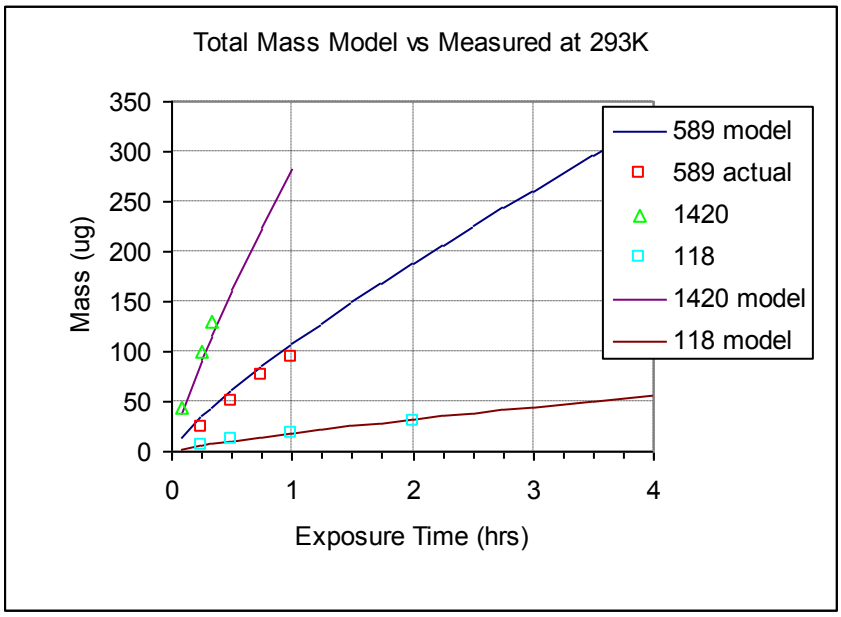


Table D shows the total average error in water concentration by compound as well as the low and high error. The average ranges from about 6% to 20%, which is similar to the analytical method errors. The low and high errors range from 12% to 32% and include contribution from measurement errors in both time and temperature.

Sorbent Saturation

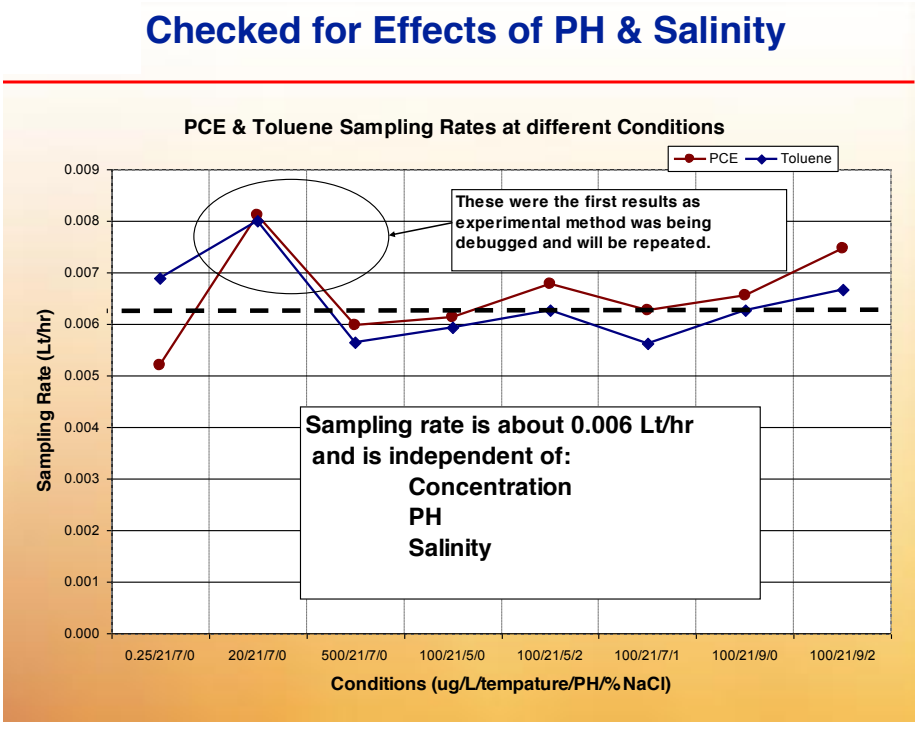
As mass increases on a solid sorbent and approaches saturation, reverse diffusion can occur causing the sampling rate to drop. Eventually the mass level will reach a maximum steady state value at any concentration. A rate of mass uptake with time that deviates significantly from linear, indicates that sorbent saturation could be an issue. When using equation (1), staying in the linear range to avoid the effects of adsorbent saturation is important. We recommend keeping the total mass on the sampler below 50 ug or flagging when this is exceeded.

The 4 constant regression accounts for some of the non linearity allowing good accuracy at higher mass levels. From the experimental data we have found this safe range can be extended to 100 ug or higher as shown in the chart below. This chart compares total mass of all compounds (excluding heavy alkanes, which have solubility issues) versus time in comparison to that predicted from the 4-constant concentration equation.



Effect of PH and Salinity

Because neither PH nor salinity is known to have a significant impact on Henry's law or diffusivity in water, we did not expect them to have a significant impact on sampling rate. To confirm this, experiments were run varying PH from 5 to 9 and NaCl content from 0 to 2%. The chart below shows no significant impact for combinations of PH and NaCl content over this range on the sampling rate of toluene in water at 21°C.

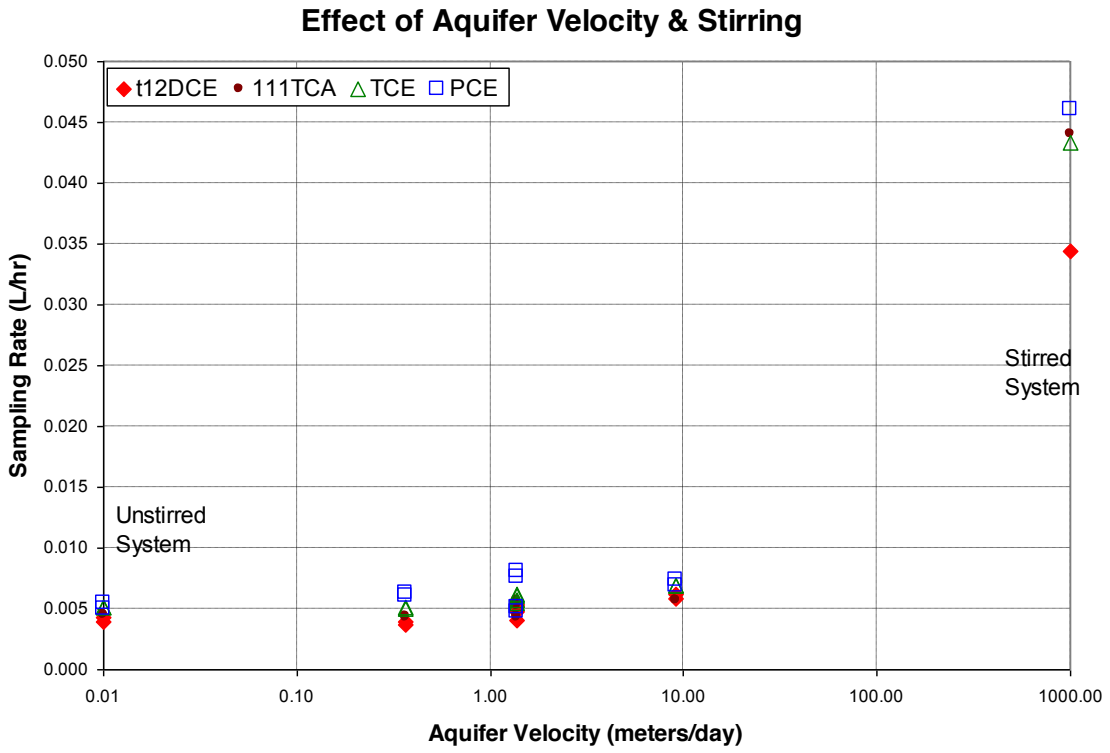


Impact of Aquifer Velocity

The velocity in most aquifers is quite slow, typically a meter/day or less. Occasionally water flow could be much higher such as encountered in karst aquifers, streams or rivers. Mass transfer coefficients are higher in high flow conditions, which will lead to higher sampling rates. We validated that a highly stirred system had sampling rates about 10 times higher than those that were non-stirred. We decided to evaluate the effect of aquifer velocity.

A test apparatus was built comprising a 3" PVC pipe tee filled with clean sand in each of the horizontal straight legs and screened to leave the center open. A test solution was run through this system using a variable flow pump and AGI samplers were placed into the simulated well through the vertical leg of the tee. Tests were run to examine the effect of velocity by varying the pumping rate and hence water velocity.

The chart below shows no significant effect of aquifer velocity up to a speed of about 10 meters/day. At velocities significantly above this, similar to a stirred system, sampling rates are about 10 times higher.

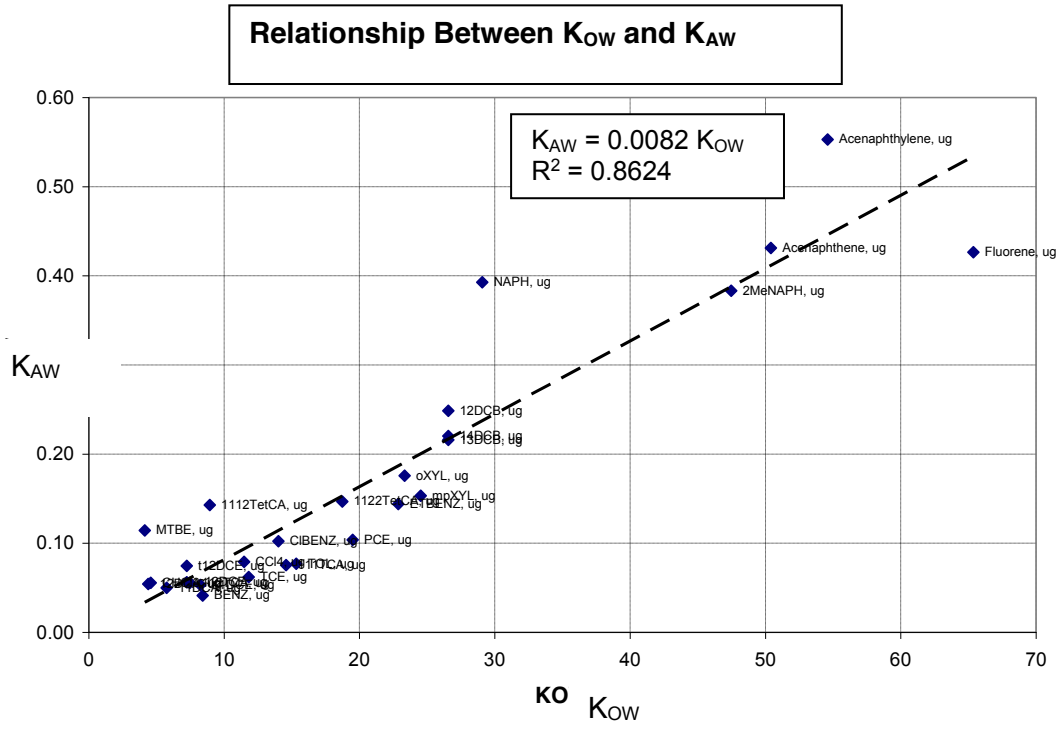


Part 2: Calibration in Deep (>34') water

Part 2 describes the effect of deep water on the AGI sampler and summarizes the effects on sampling rate and concentration measurement.

When the water pressure exceeds the water entry pressure of the membrane, about 34 feet of water, the water becomes in direct contact with the solid adsorbent. Under this condition the compounds in the water will partition from the water into the solid. The portioning coefficient is closely related to the octanol-water coefficient, K_{OW}, but has been measured more precisely in the lab for AGI's specific solid adsorbent, K_{AW}. The sampling rate for deep water is the product of the sampling rate at <34' of water and the K_{AW}.

Measurement of the K_{AW} was done in a one liter stainless steel vessel pressurized with nitrogen to simulate water heads above 34' of water. Pressures of up to 465 psig or 200' of water head were used. The sampling rate change was the same at all pressures above 34' of water. The K_{AW} was determined as the ratio between the mass or sampling rate above 34' of head to the rate at <34' of head and is shown in the chart below.



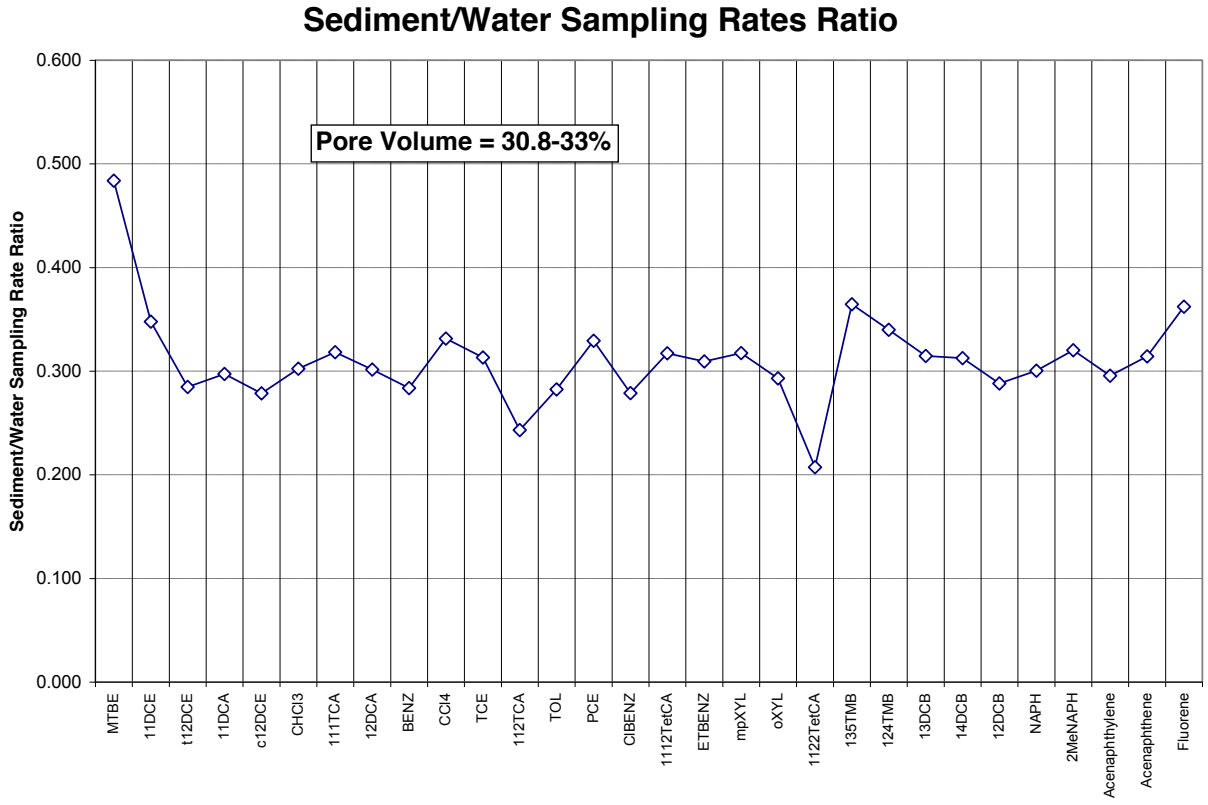
Part 3: Calibration in Sediment

Part 3 describes the effect of sediment solids or sediment pore volume on the sampling rate and concentration measurement.

In sediment, the sampler measures pore water concentration, which is generally agreed to be the preferred measurement as it is more indicative of bioavailability. In sediment the volumetric availability of water to the sampler is reduced by the volume fraction solids in the sediment. As a result sampling rates in sediment are multiplied by the fraction pore water to determine

concentration. Pore water fraction can range from 1.0 for water without sediment to as low as 0.25. Typically most sediments have pore fractions of 0.9 to 0.65.

A sampling rate study was done with water and with water added into a well-packed sorted sand. Pore water fraction in this test was measured between 30.8% and 33% by volume. Below is a plot of the ratio of sampling rates measured in the sediment to open water. The average ratio is equal to the pore water fraction confirming that sampling rate in sediment is on average equal to the product of pore water fraction times the sampling rate in water.



Summary

The AGI Sampler can be used to determine the concentration of volatile and semi-volatile compounds in a water phase. This requires knowing the exposure time and water temperature. It also requires knowing if the sample is above or below 34' of water head and if the water has a velocity above 10 meters/day. Regressions of large amounts of data were used to generate a four constant equation to generate concentration values in water. Potential error in the concentration values is excellent typically less than 25%.

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TABLE A

WATER SAMPLING RATES STANDARD LIST

	SRr 293.14	SR @ 277.54	SR @ 282.44	SR @ 287.84	SR @ 293.24	SR @ 298.94
MTBE	0.0025	0.0014	0.0016	0.0018	0.0022	0.0029
t12DCE	0.0043	0.0028	0.0028	0.0027	0.0037	0.0048
11DCA	0.0047	0.0031	0.0033	0.0033	0.0039	0.0052
c12DCE	0.0046	0.0030	0.0031	0.0031	0.0038	0.0051
CHCl3	0.0046	0.0030	0.0031	0.0031	0.0038	0.0051
111TCA	0.0066	0.0043	0.0047	0.0047	0.0056	0.0076
12DCA	0.0045	0.0029	0.0029	0.0030	0.0036	0.0050
BENZ	0.0050	0.0031	0.0034	0.0035	0.0042	0.0056
CCl4	0.0068	0.0044	0.0048	0.0047	0.0058	0.0080
TCE	0.0052	0.0030	0.0034	0.0034	0.0043	0.0058
112TCA	0.0043	0.0027	0.0027	0.0028	0.0034	0.0048
TOL	0.0056	0.0034	0.0039	0.0039	0.0047	0.0062
OCT	0.0064	0.0046	0.0050	0.0040	0.0058	0.0089
PCE	0.0061	0.0036	0.0043	0.0043	0.0051	0.0069
ClBENZ	0.0054	0.0033	0.0039	0.0040	0.0045	0.0059
1112TetCA	0.0061	0.0037	0.0042	0.0044	0.0050	0.0065
EtBENZ	0.0060	0.0037	0.0045	0.0044	0.0052	0.0069
mpXYL	0.0064	0.0039	0.0048	0.0046	0.0055	0.0072
oXYL	0.0066	0.0041	0.0050	0.0048	0.0057	0.0074
1122TetCA	0.0044	0.0027	0.0029	0.0031	0.0036	0.0046
135TMB	0.0079	0.0046	0.0059	0.0056	0.0071	0.0093
124TMB	0.0078	0.0046	0.0060	0.0055	0.0071	0.0092
13DCB	0.0072	0.0041	0.0055	0.0053	0.0063	0.0080
14DCB	0.0071	0.0040	0.0054	0.0052	0.0062	0.0079
12DCB	0.0070	0.0040	0.0053	0.0051	0.0060	0.0076
UNDEC		0.0026	0.0024	0.0020	0.0031	0.0029
NAPH		0.0041	0.0056	0.0054	0.0064	0.0081
TRIDEC						
2MeNAPH		0.0043	0.0066	0.0066	0.0080	0.0108
PENTADEC						
Total mass	0.1177	0.0822	0.1339	0.1334	0.1773	0.1981

Notes:

Values in L/hr

Total mass does not include UNDEC, TRIDEC, PENTADEC (28 compounds)

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TABLE B

4 CONSTANT REGRESSION OUTPUT

	Adjusted Rsq	Standard Error	ln(SR0)	b	-Ea/R	d	Std Error ln(SR0)	Std Error b	Std Error -Ea/R	Std Error d
MTBE	0.997	0.0960	-3.217	0.981	2704	-0.709	0.2881	0.0062	83	0.0082
t12DCE	0.992	0.1659	-1.877	0.905	2147	-0.760	0.4971	0.0100	144	0.0138
11DCA	0.995	0.1272	-1.346	0.916	1965	-0.746	0.3809	0.0077	110	0.0106
c12DCE	0.995	0.1299	-1.905	0.911	2137	-0.751	0.3892	0.0078	112	0.0109
CHCl3	0.996	0.1260	-1.841	0.912	2118	-0.748	0.3776	0.0076	109	0.0105
111TCA	0.995	0.1279	-2.684	0.902	2259	-0.761	0.3836	0.0076	111	0.0106
12DCA	0.995	0.1263	-2.161	0.908	2218	-0.746	0.3786	0.0076	109	0.0106
BENZ	0.995	0.1323	-2.207	0.920	2198	-0.754	0.3965	0.0080	114	0.0110
CCl4	0.994	0.1405	-3.121	0.889	2379	-0.776	0.4220	0.0083	122	0.0116
TCE	0.992	0.1655	-3.338	0.900	2522	-0.772	0.4969	0.0099	144	0.0137
112TCA	0.995	0.1264	-2.412	0.896	2302	-0.724	0.3790	0.0075	109	0.0107
TOL	0.994	0.1426	-2.873	0.916	2364	-0.756	0.4281	0.0087	124	0.0119
OCT	0.938	0.4698	-5.984	0.822	3235	-0.827	1.4231	0.0277	412	0.0388
PCE	0.991	0.1773	-3.780	0.877	2601	-0.775	0.5329	0.0103	154	0.0147
ClBENZ	0.994	0.1457	-2.601	0.911	2292	-0.747	0.4370	0.0088	126	0.0122
1112TetCA	0.996	0.1235	-2.676	0.898	2281	-0.725	0.3705	0.0073	107	0.0104
EtBENZ	0.993	0.1597	-2.930	0.918	2357	-0.752	0.4794	0.0097	138	0.0134
mpXYL	0.992	0.1678	-3.036	0.909	2372	-0.749	0.5037	0.0101	145	0.0140
oXYL	0.993	0.1555	-2.862	0.911	2312	-0.740	0.4667	0.0094	135	0.0131
1122TetCA	0.996	0.1118	-1.971	0.913	2167	-0.691	0.3351	0.0067	97	0.0096
135TMB	0.988	0.2024	-4.435	0.897	2720	-0.738	0.6093	0.0121	176	0.0170
124TMB	0.989	0.1997	-4.126	0.890	2631	-0.731	0.6009	0.0118	173	0.0169
13DCB	0.991	0.1832	-3.422	0.888	2449	-0.730	0.5503	0.0108	159	0.0155
14DCB	0.991	0.1802	-3.263	0.892	2408	-0.724	0.5413	0.0107	156	0.0153
12DCB	0.992	0.1697	-2.970	0.894	2327	-0.716	0.5092	0.0101	147	0.0144
UNDEC	0.694	0.374	-1.406	0.426	1708	-0.806	1.792	0.028	517	0.053
NAPH	0.992	0.166	-3.374	0.915	2430	-0.671	0.497	0.010	144	0.014
TRIDEC										
2MeNAPH	0.984	0.238	-5.498	0.869	2990	-0.689	0.72	0.014	208	0.021
PENTADEC										
Total mass	0.993	0.1543	-6.111	0.907	2419	-0.732	0.4666	0.0093	134	0.0130

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TABLE C

8260C MASS UNCERTAINTY

AGI 8260C Method for Mass using SPG-0008 Samplers

	99% Uncertainty Range +/-	95% Uncertainty Range +/-
MTBE	20%	14%
t12DCE	22%	15%
11DCA	18%	12%
c12DCE	18%	12%
CHCl3	16%	11%
111TCA	18%	12%
12DCA	20%	13%
BENZ	16%	10%
CCl4	19%	12%
TCE	15%	10%
112TCA	18%	12%
TOL	15%	10%
OCT	20%	13%
PCE	16%	11%
ClBENZ	18%	12%
1112TetCA	19%	13%
EtBENZ	18%	12%
mpXYL	18%	12%
oXYL	18%	12%
1122TetCA	23%	15%
135TMB	21%	14%
124TMB	20%	14%
13DCB	19%	13%
14DCB	19%	13%
12DCB	20%	14%
NAPH	21%	14%
2MeNAPH	25%	17%

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TABLE D

4 CONSTANT WATER CONCENTRATION UNCERTAINTY

ERROR IN CONCENTRATION REPORTING (1)

	Average Error	Minimum Error	Maximum Error
MTBE	6%	-12%	12%
t12DCE	11%	-26%	21%
11DCA	8%	-19%	13%
c12DCE	9%	-19%	15%
CHCl3	9%	-20%	14%
111TCA	9%	-19%	23%
12DCA	10%	-19%	17%
BENZ	8%	-18%	13%
CCl4	10%	-23%	22%
TCE	10%	-21%	14%
112TCA	11%	-21%	21%
TOL	7%	-17%	14%
OCT	20%	-41%	42%
PCE	10%	-24%	15%
ClBENZ	7%	-16%	14%
1112TetCA	8%	-17%	18%
EtBENZ	6%	-19%	14%
mpXYL	7%	-22%	13%
oXYL	7%	-19%	13%
1122TetCA	8%	-16%	17%
135TMB	9%	-23%	17%
124TMB	10%	-28%	19%
13DCB	10%	-22%	17%
14DCB	10%	-22%	17%
12DCB	9%	-23%	17%
NAPH	10%	-24%	21%
2MeNAPH	13%	-32%	30%

(1) For 1 hour exposure, includes error related to mass value from AGI analytical method 8260C

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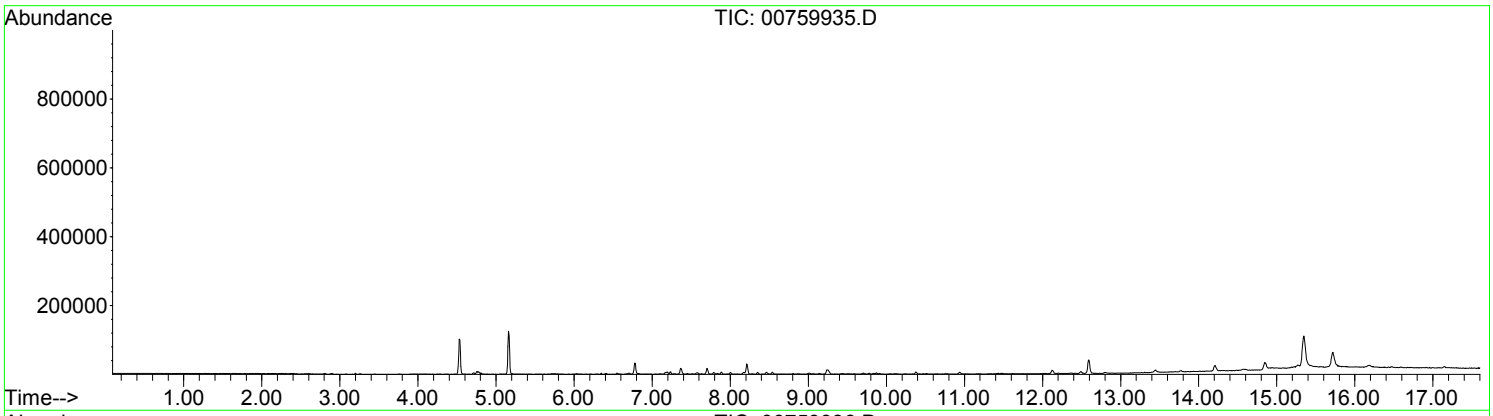
www.agisurveys.net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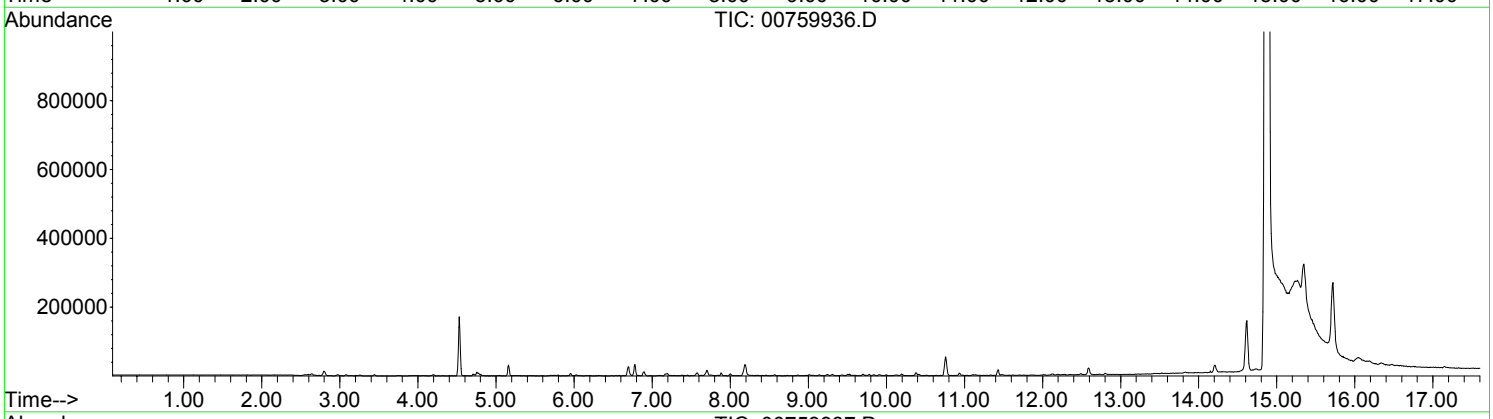
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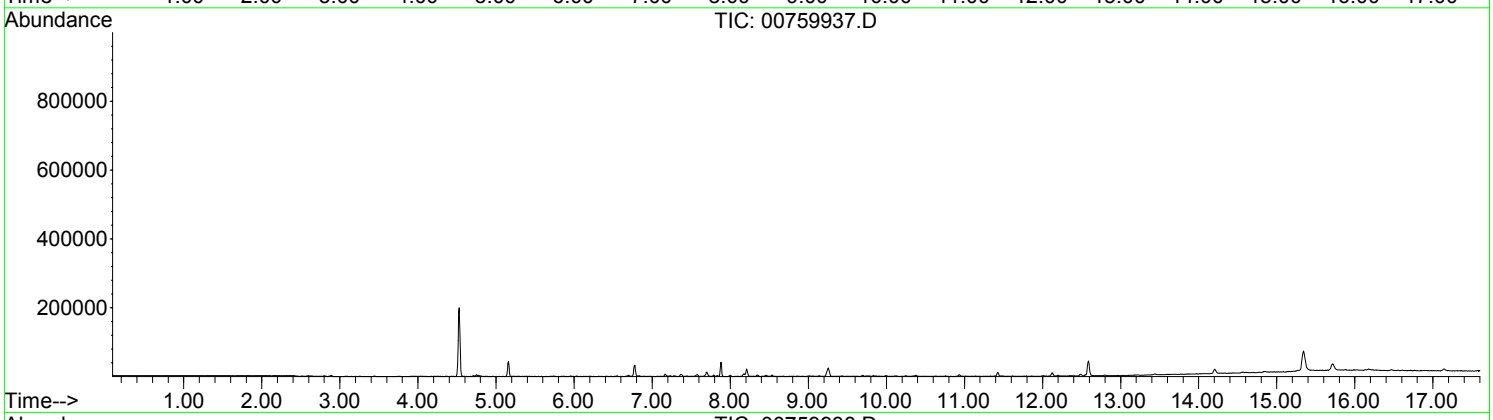
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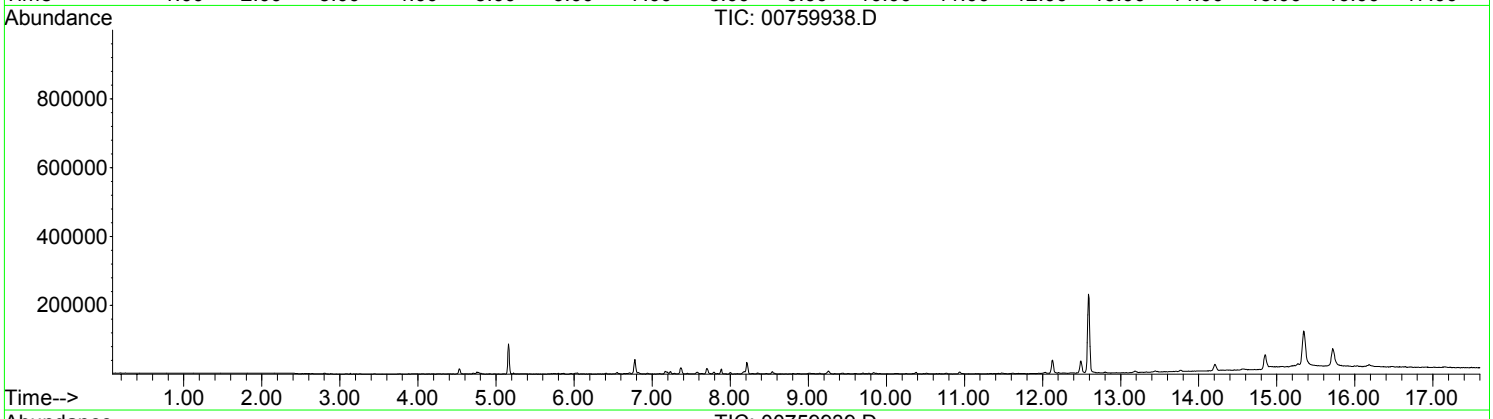
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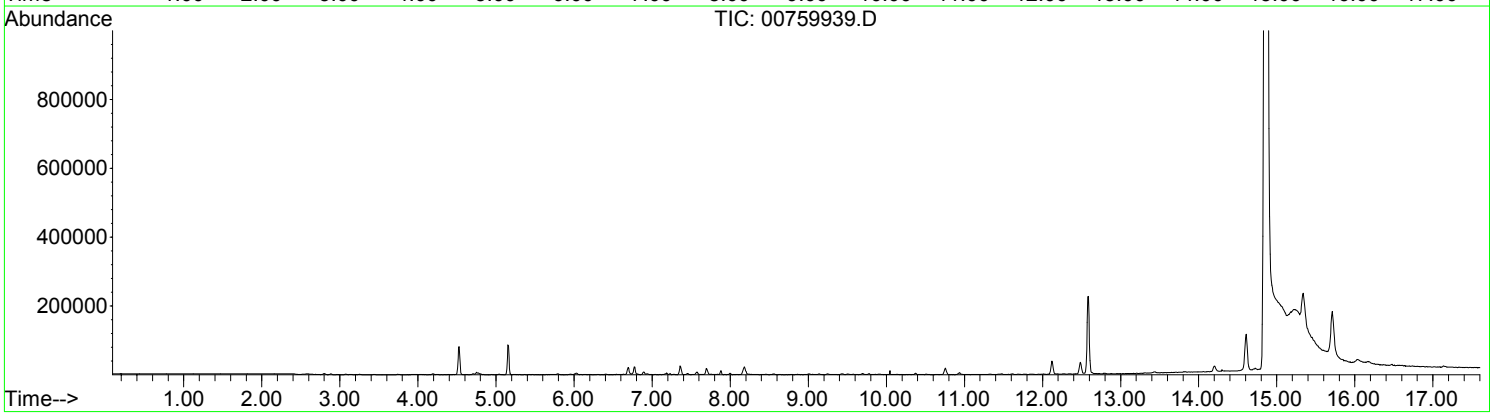
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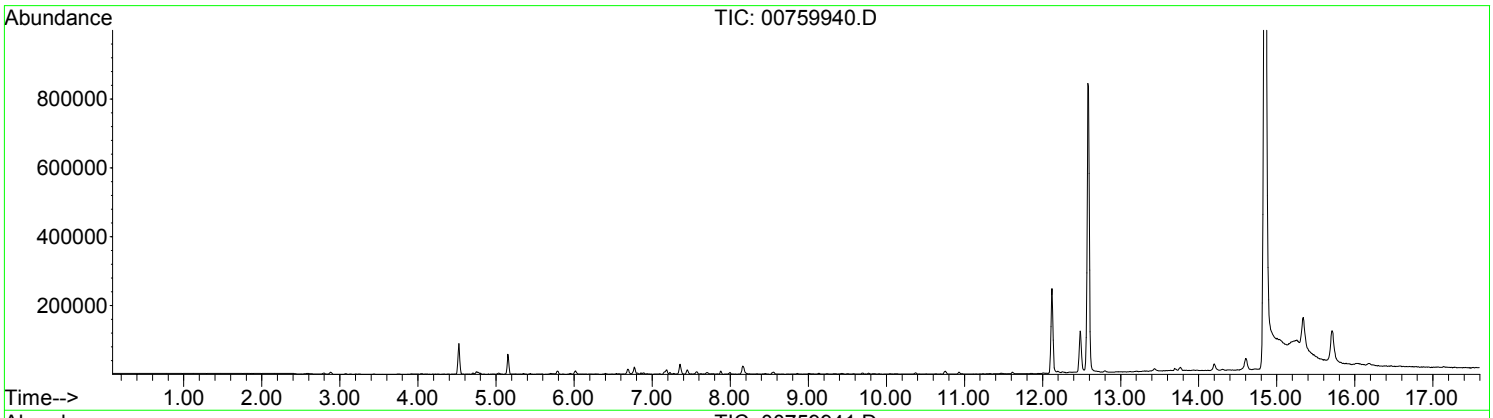
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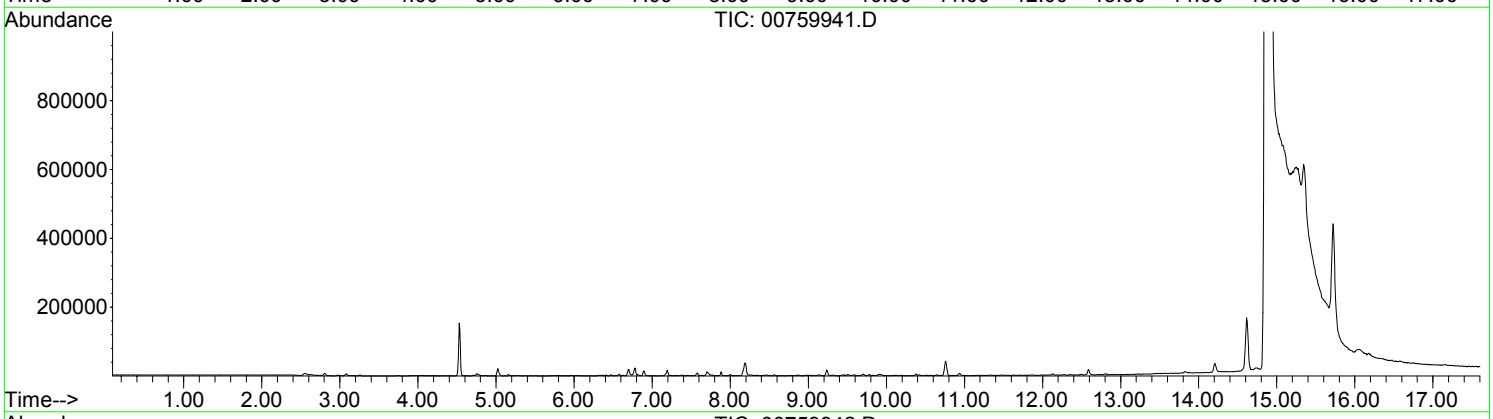
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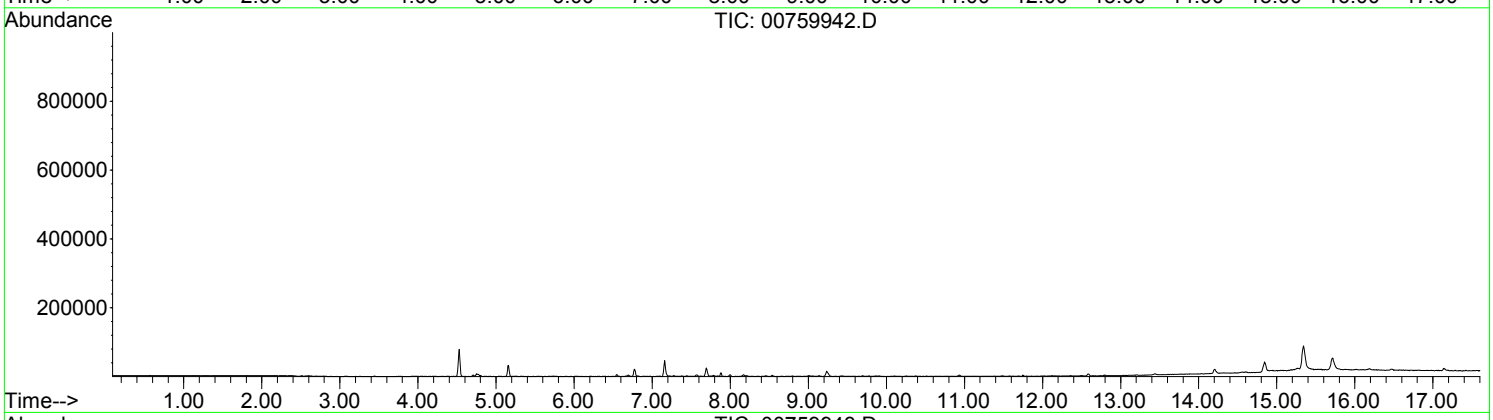
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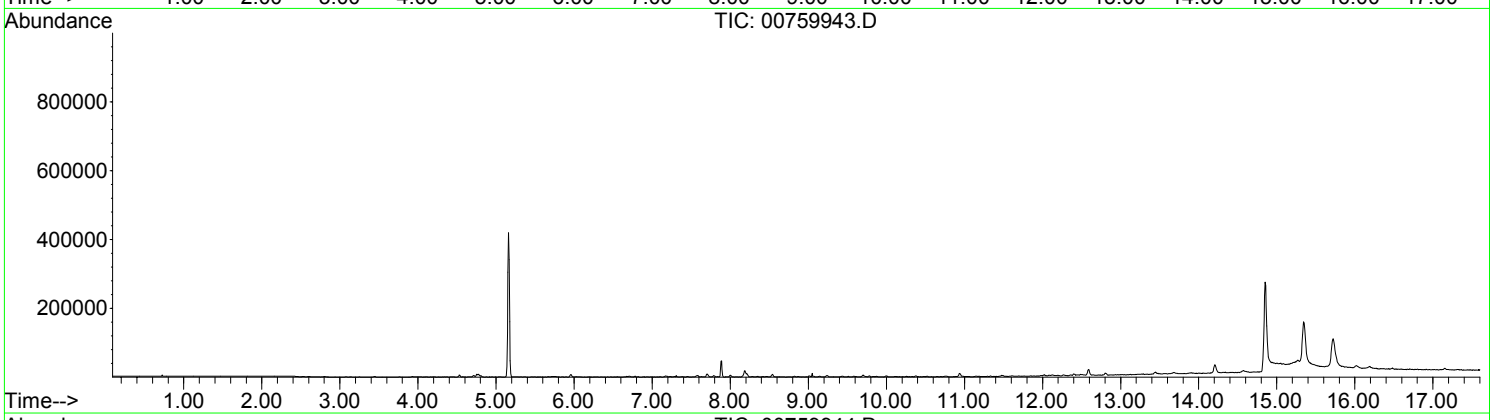
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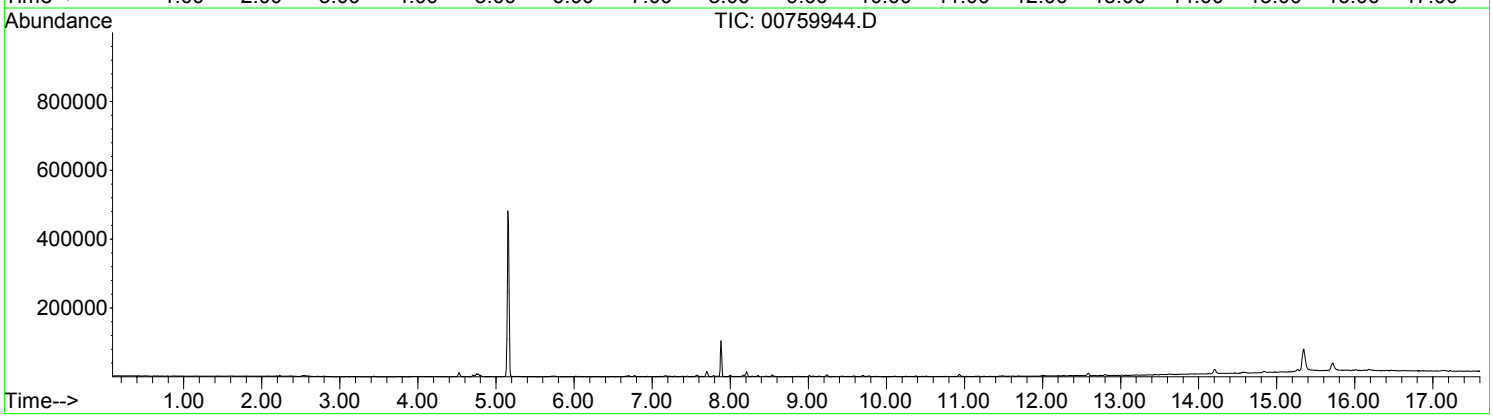
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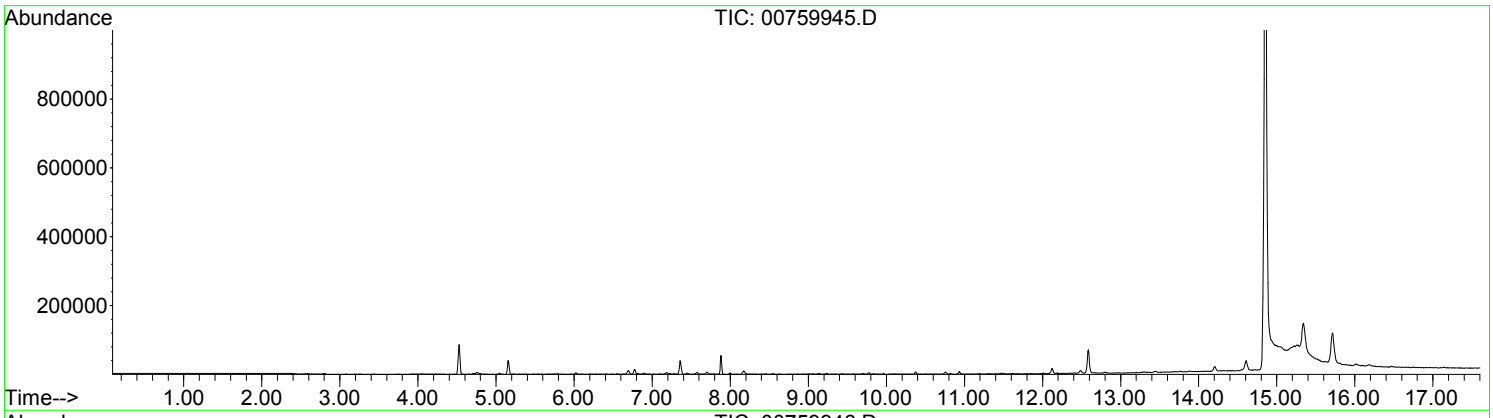
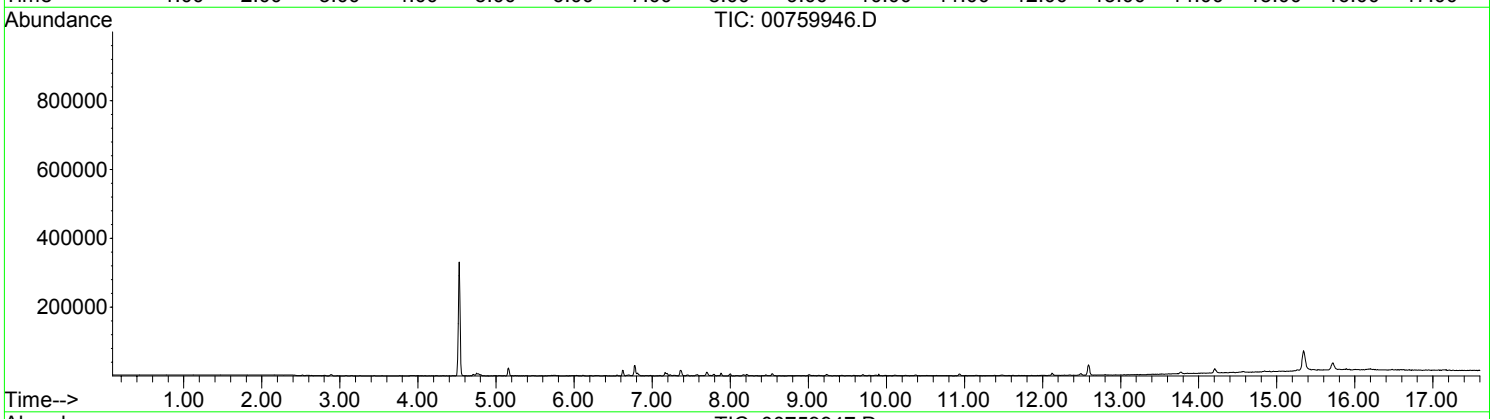
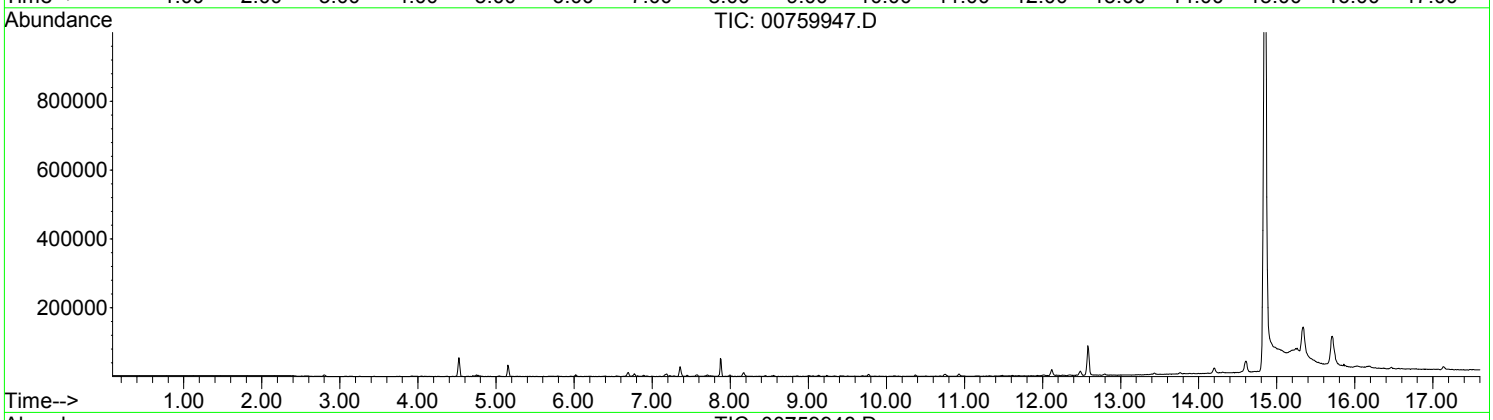
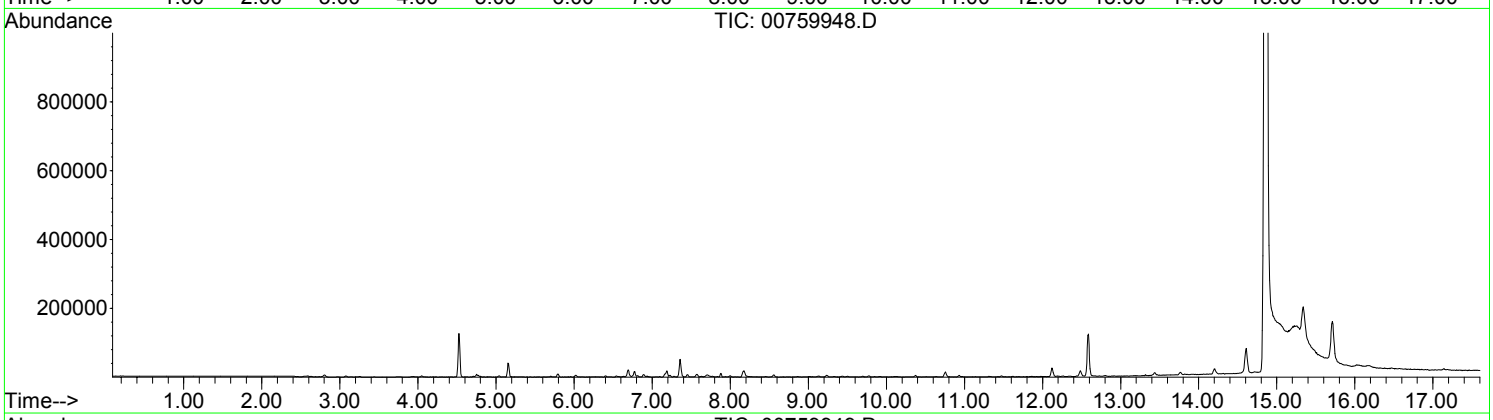
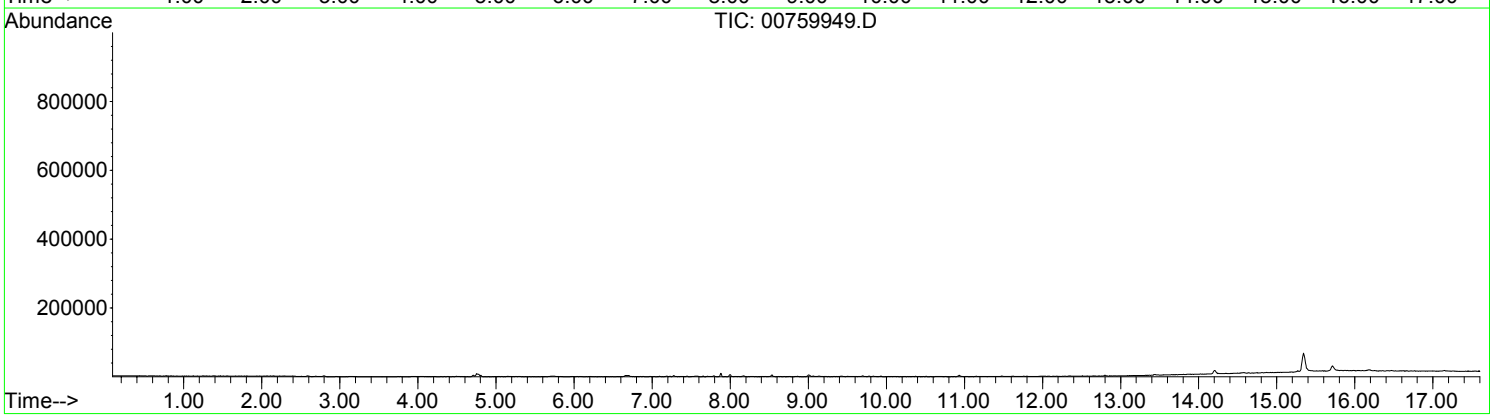
IN NUMERICAL ORDER











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AMPLIFIED GEOCHEMICAL IMAGING, LLC

Laboratory Report

Site: Comal & San Marcos Rivers August Sampling

Prepared for:

SWCA Environmental Consultants
10245 Little York Road
Suite 600
San Antonio, TX
UNITED STATES

Prepared on:
September 10, 2015
(Revised September 15, 2015)

Project Summary and Objective

Amplified Geochemical Imaging, LLC. (AGI) provided the AGI Environmental Survey used at:

Comal & San Marcos Rivers August Sampling

The service provided by AGI included delivery of the required quantity of AGI Universal Samplers, analysis by the method described below for the requested organic compounds, reporting of the data, and contour mapping (as needed).

This report includes results for only the samples noted under the Laboratory Sample Report section. If contour maps are part of the project deliverable, the maps will be prepared and issued under a separate report cover, upon receipt of a usable sitemap (electronic) and compound choices for contouring.

Written/submitted by:

Jim E Whetzel

Project Manager

Reviewed/approved by:

Don D'Apolito

Project Manager

Analytical data approved by:

Ian McMullen

Chemist

Quality Assurance Statement

The AGI Laboratory, at Amplified Geochemical Imaging's facility in Newark, DE USA, operates under the guidelines of its ISO Standard 17025 DoD ELAP accreditation, and its Quality Assurance Manual, Operating Procedures, and Methods (SPG-SOP-0462).

For this project, the analytical method, results, and observations reported do [ ] do not [√] fall within the scope of AGI's ISO 17025 accreditation.

Screening/Concentration Method

The AGI Universal Samplers are analyzed at AGI's fixed laboratory using thermal desorption-gas chromatography/mass spectrometry (TD-GC/MS) instrumentation following modified U.S. EPA Method 8260 (SPG-WI-0292) which includes the following:

- **BFB Tuning Frequency:** A BFB tune is analyzed at the start of each analytical run and after every 30 samples.
- **Initial Calibration:** A minimum of a five point calibration curve is analyzed prior to the analysis of samples.
- **Initial Calibration Verification (ICV):** Following the calibration a second-source reference standard is analyzed to verify the accuracy of the calibration. Acceptance criteria for the ICV is +/- 30%.
- **Linearity of Target Compounds:** If the RSD of any target analyte is less than or equal to 25% then average response factor can be used for quantitation. If the RSD exceeds 25% for a target compound a regression equation can be used for quantitation.
- **Continuing Calibration Verification:** After every 10 samples, and at the end of each analytical batch, a mid-level second-source Reference Standard is analyzed. The acceptance criteria for all target analytes in the reference standards are +/- 50% of the true value.
- **Method Blank:** Analyzed prior to the analysis of field samples and every 30 samples.

Note: Analyte levels reported for the field-deployed AGI Universal Samplers that exceed trip and method blank levels, and/or the reporting limit, are more likely to have originated from on-site sources.

Media Sampled:	WATER
Chemist - sample analysis:	Kelly J Stringham
Chemist - data processor:	Kelly J Stringham
Chemist - data review:	Ian McMullen

Method Deviations: None

Please note that data file names ending with R are rerun samples using the second pair of sorbers, in which the original results were not reported. Data file names ending in D are duplicate analysis results for the second set of sorbers from the same sampler, and are reported.

Additional Report Information

- Comments
- Laboratory Sample Report
- Chain of Custody
- Installation and Retrieval Log
- Analytical Results and Key
- Concentration Calculation Method Summary
- Total Ion Chromatograms

Project Specific Comments

Due to an instrument malfunction, samples were analyzed on two different instruments. The second instrument had an elevated TPH background, therefore the TPH values for samples analyzed on the second instrument were found to have artificially higher TPH values reported. Samples analyzed on the second instrument included: 767203, -204, -205, -210, and -221. Relative impact of the elevated TPH background can be seen in sample 767221, which was an unused sampler analyzed on the second instrument and was found to have 0.65ug of TPH.

This report was revised at the request of SWCA to report only the trip blank designated on the chain of custody, 00767214.

Survey period [1]	Samplers were installed on August 13, 2015 and retrieved on August 27, 2015 for an exposure time of 14 days.
Tamper seal intact:	Yes
Date received:	8/28/15 11:00 am By: Scott Kirlin
COC returned:	Yes

Comments:

None.

1 - Installation start to end of retrieval, as reported. See installation and retrieval log for individual deployment and retrieval dates and times (i.e., sampler exposure time).

General Comments

Analytical QA/QC

Laboratory instrumentation consists of gas chromatographs equipped with mass selective detectors, coupled with automated thermal desorption units. Sample preparation involves cutting the tip off the bottom of the AGI Universal Sampler, and transferring one or more "sorbers" to a thermal desorption tube for analysis. The insertion/retrieval cord prevents soil, water and other interferences from coming in contact with the adsorbent. No further sample preparation is required. Any replicate sorbers not consumed in the initial analysis will be discarded fifteen (15) days from the date of the laboratory report.

Data are archived and stored in a secure manner as per AGI's Quality Assurance program (SPG-SOP-0462).

Total petroleum hydrocarbons (TPH), gasoline-range petroleum hydrocarbons (GRPH), and/or diesel range petroleum hydrocarbons (DRPH), when reported, are calculated using the area under the peaks observed in m/z 55 and 57 selected ion chromatograms. Quantitation of the mass values was performed using the response factor for a specific alkane (present in the calibration standards). TPH values include the entire chromatogram and provide estimates for aliphatic hydrocarbon ranges of C4 to C20. GRPH and DRPH include only the relevant regions of the chromatograms and provide estimates for C4 to C10 and C10 to C20 aliphatic hydrocarbons, respectively.

Trip blanks were provided to document potential exposures that were not part of the signal of interest (e.g., impact during sampler shipment, installation and/or retrieval, and storage). The trip blanks are identically manufactured and packaged AGI Universal Samplers to those samplers deployed in the field . The trip blanks remain unopened during all phases of the project. Levels reported on the trip blanks may indicate potential impact to the samplers other than the contaminant source of interest.

Unresolved peak envelopes (UPEs) are represented as a series of compound peaks clustered together around a central gas chromatograph elution time in the total ion chromatogram. UPEs may be indicative of complex fluid mixtures. UPEs observed early in the chromatograms are considered to indicate presence of more volatile fluids, while UPEs observed later in the chromatogram may indicate the presence of less volatile fluids. Multiple UPEs may indicate the presence of multiple complex fluids.

Total ion chromatograms (TICs) are included in the Attachments. The eight-digit serial number of each sampler is incorporated in the TIC identification (e.g., 12345678.D represents AGI Universal Sampler 12345678).

General Comments

Soil Gas Sampling

For soil gas sampling, the AGI Environmental Survey reports mass levels migrating through the open pore spaces of the soil and diffusing through the sampler membrane for sorption by the engineered, hydrophobic adsorbents, housed within the membrane tube. During the migration of the soil gas away from the source to the AGI Universal Sampler, the vapors are subject to a variety of attenuation factors. The soil gas masses reported on the samplers compare favorably with the concentrations reported in the soil or groundwater (e.g., where soil gas levels are reported at greater levels to other sampled locations on the site, the matrix data should reveal the same pattern, and vice versa). However, due to a variety of factors, a perfect comparison between matrix data and soil gas levels can rarely be achieved.

Soil gas concentrations (µg/m3) are calculated following the method described in the Additional Report Information section.

Soil gas signals reported by this method cannot be correlated specifically to soil adsorbed, groundwater, and /or free-phase contamination. The soil gas signal reported from each AGI Universal Sampler can evolve from all of these sources. Differentiation between soil and groundwater contamination can only be achieved with prior knowledge of the site history (i.e., the site is known to have groundwater contamination only).

Air Sampling

For indoor, outdoor, and crawlspace air sampling, the AGI Environmental Survey reports mass levels present in the air and diffusing through the sampler membrane for sorption by the engineered adsorbents housed within the membrane tube.

Air concentrations (µg/m3) are calculated following the method described in the Additional Report Information section.

Groundwater and Sediment Porewater Sampling

For groundwater and sediment porewater sampling, the AGI Environmental Survey reports the mass levels of compounds present in the water which, when coming in contact with the sampler membrane, partitions out of solution, and diffuses through the sampler membrane for sorption by the engineered adsorbents.

Water concentrations (µg/L) are calculated using the quantified mass, exposure period and the compound specific uptake rate. The rates were measured under controlled experimental conditions. The uptake rates are corrected for water pressure (depth of the AGI Universal Sampler below the water table), water temperature and the aquifer flow rate. For sediment porewater, the uptake rate is corrected for the reduced volume of water in the sediment, by multiplying the uptake rate by the pore water fraction.

LABORATORY SAMPLE REPORT

Project: ENV 01464 **Site Name: Comal & San Marcos Rivers Aug.** **Module Type: SPG0008**

Module ID	Sample Type	Field ID
00767200	FIELD_SAMPLE	HCS430
00767201	FIELD_SAMPLE	HCS410
00767202	FIELD_SAMPLE	HCS420
00767203	FIELD_SAMPLE	HCS440
00767204	FIELD_SAMPLE	FDHCS440
00767205	FIELD_SAMPLE	HCS460
00767206	FIELD_SAMPLE	HSM410
00767207	FIELD_SAMPLE	HSM420
00767208	FIELD_SAMPLE	HSM430
00767209	FIELD_SAMPLE	FDHSM430
00767210	FIELD_SAMPLE	HSM440
00767212	FIELD_SAMPLE	HSM460
00767213	FIELD_SAMPLE	HSM470
00767214	TRIP_BLANK	TB10
00767221	UNUSED	NOT USED

Total # "FIELD SAMPLES"	Total # "TRIP BLANKS"	Total # "UNUSED"	Total # "LOST"
13	1	1	0

Duplicate samples: **0**

Note: e o re r ed o e er e re e o W re ere o re or ed

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AGI Universal Passive Sampler Chain of Groundwater Sampling

Production Order #: 01464

Customer Name:	SWCA Environmental Consultants	Site Name:	Comal & San Marcos Rivers Aug.
Address:	6200 UTSA Boulevard Suite 102 San Antonio, TX 78249 USA	Site Address: Project Manager:	

Serial # of Samplers Shipped
00767200 - 00767214
00767221 - 00767221

# of Samplers for Installation	14.00	# of Trip Blanks	2
Total Samplers Shipped	16.00	Pieces	
Total Samplers Received	16	Pieces	
Total Samplers Installed	14	Pieces	

Please hold analysis of # 00767211 until status verified w/ our client

Serial # of Trip Blanks (Client Decides)

00767214		

Prepared By: [signature]

Verified By: [signature] 7/22/15

Is Concurrent water sampling planned this monitoring period? YES (NO)

Scheduled Sampling Date:

Installation Performed By:
Name: Jennifer Moreland ~~Guy~~ Guy Rubio
Company: SWCA

Installation Start Date / Time: 8/13/15 10:40
Installation Complete Date / Time 8/13/15 14:38

Retrieval Performed By:
Name: Jennifer Moreland ~~Guy~~ Brittany Rios
Company: SWCA

Retrieval Start Date / Time: 8/27/15 949
Retrieval Complete Date / Time 8/27/15 1354

Total Samplers Retrieved: 14
Total Samplers Lost In Field: 0
Total Unused Samplers Returned: 1

Relinquished By	[signature]	**Date/Time**	7-22-15 2:45PM
Company:	AGI		
Received By:	[signature]	**Date/Time**	7/23/15 930AM
Company:	SWCA		
Relinquished By	[signature]	**Date/Time**	8/27/15 16:51
Company:	SWCA		
Received By:	[signature]	**Date/Time**	8-28-15 11:00AM
Company:	AGI		

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AGI Project No. ENV 01464
Site Name: Comal & San Marcos Rivers Aug.
Site Location: New Braunfels and San Marcos, TX

AGI Soil Gas Sampling
Installation & Retrieval Log

Company Name: SWCA Environmental Consultants
Location: San Antonio, TX
Samples collected by: Jennifer Moreland, Guy Rubio, Brittany Rios

*** Optional or as needed**

					WATER QUALITY MONITORING			
SAMPLER SERIAL NO.	**WELL ID**	**SAMPLE TYPE (Field Sample, Trip Blank, Field Blank, etc.)**	**INSTALLATION DATE & TIME MM/DD/YYYY HH:MM (24 Hour) ex. 12/30/2000 13:00**	**RETRIEVAL DATE & TIME MM/DD/YYYY HH:MM (24 Hour) ex. 12/30/2000 15:00**	**INSTALLATION DEPTH FROM TOP OF CASING (feet)**	**DEPTH TO WATER FROM TOP OF CASING (feet)**	**SCREENED INTERVAL FROM TOP OF CASING (feet)**	**WATER TEMPERATURE AT MODULE DEPTH (deg C)**
00767200	HCS430	FIELD_SAMPLE	8/13/15 10:40	8/27/15 12:55	3.25			
00767201	HCS410	FIELD_SAMPLE	8/13/15 11:01	8/27/15 13:16	1.1			
00767202	HCS420	FIELD_SAMPLE	8/13/15 11:08	8/27/15 13:25	2.1			
00767203	HCS440	FIELD_SAMPLE	8/13/15 11:28	8/27/15 13:45	1.9			
00767204	FDHCS440	FIELD_SAMPLE	8/13/15 11:28	8/27/15 13:45	1.9			
00767205	HCS460	FIELD_SAMPLE	8/13/15 11:36	8/27/15 13:54	2.65			
00767206	HSM410	FIELD_SAMPLE	8/13/15 13:08	8/27/15 9:48	1.5			
00767207	HSM420	FIELD_SAMPLE	8/13/15 13:21	8/27/15 10:00	2.9			
00767208	HSM430	FIELD_SAMPLE	8/13/15 13:27	8/27/15 10:08	0.55			
00767209	FDHSM430	FIELD_SAMPLE	8/13/15 13:27	8/27/15 10:08	0.55			
00767210	HSM440	FIELD_SAMPLE	8/13/15 13:39	8/27/15 10:19	5			
00767211	HSM450	FIELD_SAMPLE	8/13/15 13:56	8/27/15 10:51	2.1			
00767212	HSM460	FIELD_SAMPLE	8/13/15 14:25	8/27/15 11:06	0.8			
00767213	HSM470	FIELD_SAMPLE	8/13/15 14:38	8/27/15 11:20	1.8			
00767214	TB10	TRIP_BLANK	8/13/15 10:40	8/27/15 13:54	NA			
00767221	NOT USED	TRIP_BLANK	NA	NA	NA			

SPG-FCD-8930 Water R4

AGI Soil Gas Sampling

Installation & Retrieval L

*** Optional or as needed**

SAMPLER SERIAL NO.	FLOW RATE THROUGH SCREEN: HIGH OR LOW (HIGH = flow > than 10 m/day; LOW = flow < 10 m/day)	OBSERVATIONS/COMMENTS* (e.g., observations, location description, missing, pulled from well, etc. - as needed)	YES / NO	
			EVIDENCE OF LIQUID PETROLEUM HYDROCARBONS?	ODOR ?
00767200				
00767201				
00767202				
00767203				
00767204				
00767205				
00767206				
00767207				
00767208				
00767209				
00767210				
00767211		PLEASE DO NOT ANALYZE THIS SAMPLER. IT WAS TAMPERED WITH IN THE FIELD AND REMOVED FROM THE WATER.		
00767212				
00767213				
00767214				
00767221				

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767200 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS430
Installation Date: 8/13/2015 10:40:00AM
Retrieval Date: 8/27/2015 12:55:00PM Date Analyzed: 9/1/2015 2:19:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150831-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.36**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767200 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS430
Installation Date: 8/13/2015 10:40:00AM
Retrieval Date: 8/27/2015 12:55:00PM Date Analyzed: 9/1/2015 2:19:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150831-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767201 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS410
Installation Date: 8/13/2015 11:01:00AM
Retrieval Date: 8/27/2015 1:16:00PM Date Analyzed: 9/1/2015 3:50:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150831-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.09**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767201 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS410
Installation Date: 8/13/2015 11:01:00AM
Retrieval Date: 8/27/2015 1:16:00PM Date Analyzed: 9/1/2015 3:50:00PM
Analyst: Kelly J Stringham **Method:** SPG-WI-0292 **Batch:** ENV-150831-3
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767202 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS420
Installation Date: 8/13/2015 11:08:00AM
Retrieval Date: 8/27/2015 1:25:00PM Date Analyzed: 9/1/2015 2:50:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150831-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.13**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767202 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS420
Installation Date: 8/13/2015 11:08:00AM
Retrieval Date: 8/27/2015 1:25:00PM Date Analyzed: 9/1/2015 2:50:00PM
Analyst: Kelly J Stringham **Method:** SPG-WI-0292 **Batch:** ENV-150831-3
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767203R FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS440
Installation Date: 8/13/2015 11:28:00AM
Retrieval Date: 8/27/2015 1:45:00PM Date Analyzed: 9/3/2015 2:35:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150902-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.39**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767203R FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS440
Installation Date: 8/13/2015 11:28:00AM
Retrieval Date: 8/27/2015 1:45:00PM Date Analyzed: 9/3/2015 2:35:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150902-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**1.23**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767204R FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHCS440
Installation Date: 8/13/2015 11:28:00AM
Retrieval Date: 8/27/2015 1:45:00PM Date Analyzed: 9/3/2015 1:35:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150902-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.44**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767204R FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHCS440
Installation Date: 8/13/2015 11:28:00AM
Retrieval Date: 8/27/2015 1:45:00PM Date Analyzed: 9/3/2015 1:35:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150902-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**1.44**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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SITE NAME: Comal & San Marcos Rivers Aug.
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FOR: SWCA Environmental Consultants
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SAMPLER ID: 00767205 FIELD_SAMPLE
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: HCS460
Installation Date: 8/13/2015 11:36:00AM
Retrieval Date: 8/27/2015 1:54:00PM
Date Analyzed: 9/3/2015 11:04:00AM
Analyst: Kelly J Stringham
Method: SPG-WI-0292
Batch: ENV-150902-3
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.31**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	**108-38-3/106-42-3**	**0.08**	**0.02**
o-Xylene	**95-47-6**	**0.04**	**0.02**
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767205 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS460
Installation Date: 8/13/2015 11:36:00AM
Retrieval Date: 8/27/2015 1:54:00PM Date Analyzed: 9/3/2015 11:04:00AM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150902-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**2.59**	**0.50**
BTEX		**0.11**	**0.02**
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767206 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM410
Installation Date: 8/13/2015 1:08:00PM
Retrieval Date: 8/27/2015 9:48:00AM Date Analyzed: 9/1/2015 11:19:00AM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150831-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	127-18-4	<0.02	0.02
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767206 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM410
Installation Date: 8/13/2015 1:08:00PM
Retrieval Date: 8/27/2015 9:48:00AM Date Analyzed: 9/1/2015 11:19:00AM
Analyst: Kelly J Stringham **Method:** SPG-WI-0292 **Batch:** ENV-150831-3
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767207 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM420
Installation Date: 8/13/2015 1:21:00PM
Retrieval Date: 8/27/2015 10:00:00AM Date Analyzed: 9/1/2015 1:49:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150831-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.06**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767207 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM420
Installation Date: 8/13/2015 1:21:00PM
Retrieval Date: 8/27/2015 10:00:00AM Date Analyzed: 9/1/2015 1:49:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150831-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**0.67**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
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SAMPLER ID: 00767208 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM430
Installation Date: 8/13/2015 1:27:00PM
Retrieval Date: 8/27/2015 10:08:00AM Date Analyzed: 9/1/2015 3:20:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150831-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.68**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767208 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM430
Installation Date: 8/13/2015 1:27:00PM
Retrieval Date: 8/27/2015 10:08:00AM Date Analyzed: 9/1/2015 3:20:00PM
Analyst: Kelly J Stringham **Method:** SPG-WI-0292 **Batch:** ENV-150831-3
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
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SAMPLER ID: 00767209 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHSM430
Installation Date: 8/13/2015 1:27:00PM
Retrieval Date: 8/27/2015 10:08:00AM Date Analyzed: 9/1/2015 12:19:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150831-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.89**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767209 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHSM430
Installation Date: 8/13/2015 1:27:00PM
Retrieval Date: 8/27/2015 10:08:00AM Date Analyzed: 9/1/2015 12:19:00PM
Analyst: Kelly J Stringham **Method:** SPG-WI-0292 **Batch:** ENV-150831-3
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
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SAMPLER ID: 00767210 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM440
Installation Date: 8/13/2015 1:39:00PM
Retrieval Date: 8/27/2015 10:19:00AM Date Analyzed: 9/3/2015 12:34:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150902-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.11**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767210 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM440
Installation Date: 8/13/2015 1:39:00PM
Retrieval Date: 8/27/2015 10:19:00AM Date Analyzed: 9/3/2015 12:34:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150902-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		**1.18**	**0.50**
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
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SAMPLER ID: 00767212 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM460
Installation Date: 8/13/2015 2:25:00PM
Retrieval Date: 8/27/2015 11:06:00AM Date Analyzed: 9/1/2015 11:49:00AM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150831-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.05**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767212 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM460
Installation Date: 8/13/2015 2:25:00PM
Retrieval Date: 8/27/2015 11:06:00AM Date Analyzed: 9/1/2015 11:49:00AM
Analyst: Kelly J Stringham **Method:** SPG-WI-0292 **Batch:** ENV-150831-3
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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210 Executive Drive, Suite 1
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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767213 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM470
Installation Date: 8/13/2015 2:38:00PM
Retrieval Date: 8/27/2015 11:20:00AM Date Analyzed: 9/1/2015 1:19:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150831-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.05**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767213 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM470
Installation Date: 8/13/2015 2:38:00PM
Retrieval Date: 8/27/2015 11:20:00AM Date Analyzed: 9/1/2015 1:19:00PM
Analyst: Kelly J Stringham **Method:** SPG-WI-0292 **Batch:** ENV-150831-3
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767214 TRIP_BLANK
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: TB10
Installation Date: 8/13/2015 10:40:00AM
Retrieval Date: 8/27/2015 1:54:00PM
Date Analyzed: 9/1/2015 12:49:00PM
Analyst: Kelly J Stringham
Method: SPG-WI-0292
Batch: ENV-150831-3
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	127-18-4	<0.02	0.02
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01464
SITE NAME: Comal & San Marcos Rivers Aug.
SITE ADDRESS:

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00767214 TRIP_BLANK Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: TB10
Installation Date: 8/13/2015 10:40:00AM
Retrieval Date: 8/27/2015 1:54:00PM Date Analyzed: 9/1/2015 12:49:00PM
Analyst: Kelly J Stringham **Method: SPG-WI-0292** **Batch: ENV-150831-3**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE 19702
SWCA ENVIRONMENTAL CONSULTANTS, SAN ANTONIO, TX
STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
COMAL & SAN MARCOS RIVERS
ORDER # 01464

										estimated		
DATAFILE	FIELD	DATE/ TIME	DATE/ TIME	DATE/ TIME		DATE/ TIME						
NAME	ID	INSTALLED	RETRIEVED	RECEIVED		ANALYZED		DF	TPH, ug/L	MTBE, ug/L	t12DCE, ug/L
Average RL =									0.05	0.01	0.01
00767200	HCS430	8/13/2015	8/27/2015	8/28/2015	ET	9/1/2015	ET	1	<0.05	<0.01	<0.01
00767201	HCS410	8/13/2015	8/27/2015	8/28/2015	ET	9/1/2015	ET	1	<0.05	<0.01	<0.01
00767202	HCS420	8/13/2015	8/27/2015	8/28/2015	ET	9/1/2015	ET	1	<0.05	<0.01	<0.01
00767203R	HCS440	8/13/2015	8/27/2015	8/28/2015	ET	9/3/2015	ET	1	0.08	<0.01	<0.01
00767204R	FDHCS440	8/13/2015	8/27/2015	8/28/2015	ET	9/3/2015	ET	1	0.08	<0.01	<0.01
00767205	HCS460	8/13/2015	8/27/2015	8/28/2015	ET	9/3/2015	ET	1	0.11	<0.01	<0.01
00767206	HSM410	8/13/2015	8/27/2015	8/28/2015	ET	9/1/2015	ET	1	<0.06	<0.01	<0.01
00767207	HSM420	8/13/2015	8/27/2015	8/28/2015	ET	9/1/2015	ET	1	0.06	<0.01	<0.01
00767208	HSM430	8/13/2015	8/27/2015	8/28/2015	ET	9/1/2015	ET	1	<0.06	<0.01	<0.01
00767209	FDHSM430	8/13/2015	8/27/2015	8/28/2015	ET	9/1/2015	ET	1	<0.06	<0.01	<0.01
00767210	HSM440	8/13/2015	8/27/2015	8/28/2015	ET	9/3/2015	ET	1	0.08	<0.01	<0.01
00767212	HSM460	8/13/2015	8/27/2015	8/28/2015	ET	9/1/2015	ET	1	<0.06	<0.01	<0.01
00767213	HSM470	8/13/2015	8/27/2015	8/28/2015	ET	9/1/2015	ET	1	<0.06	<0.01	<0.01
00767214	TB10			8/28/2015	ET	9/1/2015	ET	1	<0.05	<0.01	<0.01
BLK_ENV-268217	Method Blank					9/1/2015	ET	1	<0.05	<0.01	<0.01
BLK_ENV-268571	Method Blank					9/3/2015	ET	1	<0.05	<0.01	<0.01

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE 19702
SWCA ENVIRONMENTAL CONSULTANTS, SAN ANTONIO, TX
STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
COMAL & SAN MARCOS RIVERS
ORDER # 01464

DATAFILE	FIELD								
NAME	ID	11DCA, ug/L	c12DCE, ug/L	CHCl3, ug/L	111TCA, ug/L	12DCA, ug/L	BENZ, ug/L	CCl4, ug/L	TCE, ug/L
Average RL =		0.01	0.01	0.01	0.00	0.01	0.01	0.00	0.01
00767200	HCS430	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01
00767201	HCS410	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01
00767202	HCS420	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01
00767203R	HCS440	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01
00767204R	FDHCS440	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01
00767205	HCS460	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01
00767206	HSM410	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01
00767207	HSM420	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01
00767208	HSM430	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01
00767209	FDHSM430	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01
00767210	HSM440	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01
00767212	HSM460	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01
00767213	HSM470	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.00	<0.01
00767214	TB10	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01
BLK_ENV-268217	Method Blank	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01
BLK_ENV-268571	Method Blank	<0.01	<0.01	<0.01	<0.00	<0.01	<0.01	<0.00	<0.01

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE 19702
SWCA ENVIRONMENTAL CONSULTANTS, SAN ANTONIO, TX
STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
COMAL & SAN MARCOS RIVERS
ORDER # 01464

DATAFILE	FIELD								
NAME	ID	112TCA, ug/L	TOL, ug/L	OCT, ug/L	PCE, ug/L	ClBENZ, ug/L	1112TetCA, ug/L	ETBENZ, ug/L	mpXYL, ug/L
Average RL =		0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01
00767200	HCS430	<0.01	<0.01	<0.00	0.07	<0.01	<0.01	<0.01	<0.01
00767201	HCS410	<0.01	<0.01	<0.00	0.02	<0.01	<0.01	<0.01	<0.01
00767202	HCS420	<0.01	<0.01	<0.00	0.03	<0.01	<0.01	<0.01	<0.01
00767203R	HCS440	<0.01	<0.01	<0.00	0.07	<0.01	<0.01	<0.01	<0.01
00767204R	FDHCS440	<0.01	<0.01	<0.00	0.08	<0.01	<0.01	<0.01	<0.01
00767205	HCS460	<0.01	<0.01	<0.00	0.06	<0.01	<0.01	<0.01	0.02
00767206	HSM410	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01	<0.01
00767207	HSM420	<0.01	<0.01	<0.00	0.01	<0.01	<0.01	<0.01	<0.01
00767208	HSM430	<0.01	<0.01	<0.00	0.12	<0.01	<0.01	<0.01	<0.01
00767209	FDHSM430	<0.01	<0.01	<0.00	0.15	<0.01	<0.01	<0.01	<0.01
00767210	HSM440	<0.01	<0.01	<0.00	0.03	<0.01	<0.01	<0.01	<0.01
00767212	HSM460	<0.01	<0.01	<0.00	0.01	<0.01	<0.01	<0.01	<0.01
00767213	HSM470	<0.01	<0.01	<0.00	0.01	<0.01	<0.01	<0.01	<0.01
00767214	TB10	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01	<0.01
BLK_ENV-268217	Method Blank	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01	<0.01
BLK_ENV-268571	Method Blank	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01	<0.01

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SWCA ENVIRONMENTAL CONSULTANTS, SAN ANTONIO, TX
STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
COMAL & SAN MARCOS RIVERS
ORDER # 01464

DATAFILE	FIELD							
NAME	ID	oXYL, ug/L	1122TetCA, ug/L	135TMB, ug/L	124TMB, ug/L	13DCB, ug/L	14DCB, ug/L	12DCB, ug/L
Average RL =		0.01	0.01	0.00	0.01	0.01	0.01	0.01
00767200	HCS430	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01
00767201	HCS410	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01
00767202	HCS420	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01
00767203R	HCS440	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01
00767204R	FDHCS440	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01
00767205	HCS460	0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01
00767206	HSM410	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01
00767207	HSM420	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01
00767208	HSM430	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01
00767209	FDHSM430	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01
00767210	HSM440	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01
00767212	HSM460	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01
00767213	HSM470	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01
00767214	TB10	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01
BLK_ENV-268217	Method Blank	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01
BLK_ENV-268571	Method Blank	<0.01	<0.01	<0.00	<0.01	<0.01	<0.01	<0.01

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE 19702
SWCA ENVIRONMENTAL CONSULTANTS, SAN ANTONIO, TX
STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
COMAL & SAN MARCOS RIVERS
ORDER # 01464

				estimated		estimated	estimated
DATAFILE	FIELD						
NAME	ID	UNDEC, ug/L	NAPH, ug/L	TRIDEC, ug/L	2MeNAPH, ug/L	Acenaphthylene, ug/L	PENTADEC, ug/L
Average RL =		0.02	0.02	0.02	0.01	0.01	0.02
00767200	HCS430	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02
00767201	HCS410	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02
00767202	HCS420	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02
00767203R	HCS440	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02
00767204R	FDHCS440	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02
00767205	HCS460	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02
00767206	HSM410	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02
00767207	HSM420	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02
00767208	HSM430	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02
00767209	FDHSM430	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02
00767210	HSM440	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02
00767212	HSM460	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02
00767213	HSM470	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02
00767214	TB10	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02
BLK_ENV-268217	Method Blank	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02
BLK_ENV-268571	Method Blank	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02

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STANDARD TARGET VOCs/SVOCs
ESTIMATED WATER CONCENTRATIONS
COMAL & SAN MARCOS RIVERS
ORDER # 01464

		estimated	estimated
DATAFILE	FIELD		
NAME	ID	Acenaphthene, ug/L	Fluorene, ug/L
Average RL =		0.01	0.01
00767200	HCS430	<0.01	<0.01
00767201	HCS410	<0.01	<0.01
00767202	HCS420	<0.01	<0.01
00767203R	HCS440	<0.01	<0.01
00767204R	FDHCS440	<0.01	<0.01
00767205	HCS460	<0.01	<0.01
00767206	HSM410	<0.01	<0.01
00767207	HSM420	<0.01	<0.01
00767208	HSM430	<0.01	<0.01
00767209	FDHSM430	<0.01	<0.01
00767210	HSM440	<0.01	<0.01
00767212	HSM460	<0.01	<0.01
00767213	HSM470	<0.01	<0.01
00767214	TB10	<0.01	<0.01
BLK_ENV-268217	Method Blank	<0.01	<0.01
BLK_ENV-268571	Method Blank	<0.01	<0.01

KEY TO DATA TABLE

UNITS

µg	micrograms, relative mass value
µg/m^3	micrograms per cubic meter; estimated soil gas concentration
µg/L	micrograms per Liter; calculated water concentration

DATA QUALIFIERS

>	greater than; value exceeds calibration range, estimated value
<	less than; compound value is below the LOD and RL
J	mass value below LOQ or RL, but above LOD, estimated mass value
E	mass value exceeds upper calibration level, estimated mass value
Q	one or more quality control parameters failed for the compound

ABBREVIATIONS

AVG RL	average reporting limit; calculated based on individual field sample RLs
LOD	limit of detection
LOQ	limit of quantification
MDL	method detection limit
RL	reporting limit

1112TetCA	1,1,1,2-tetrachloroethane
111TCA	1,1,1-trichloroethane
1122TetCA	1,1,2,2-tetrachloroethane
112TCA	1,1,2-trichloroethane
11DCA	1,1-dichloroethane
11DCE	1,1-dichloroethene
124TMB	1,2,4-trimethylbenzene
12DCA	1,2-dichloroethane
12DCB	1,2-dichlorobenzene
135TMB	1,3,5-trimethylbenzene
13DCB	1,3-dichlorobenzene
14DCB	1,4-dichlorobenzene
2MeNAPH	2-methyl naphthalene
BENZ	benzene
BTEX	combined masses of benzene, toluene, ethylbenzene, and total xylenes (Gasoline Range Aromatics)
C11,C13&C15	combined masses of undecane, tridecane, and pentadecane (C11+C13+C15) (Diesel Range Alkanes)
c12DCE	cis-1,2-dichloroethene
CCl4	carbon tetrachloride
CHC13	chloroform
ClBENZ	chlorobenzene
ct12DCE	cis- & trans-1,2-dichloroethene
EtBENZ	ethylbenzene
mpXYL	m-, p-xylene
MTBE	methyl t-butyl ether
NAPH	naphthalene
OCT	octane
oXYL	o-xylene
PCE	tetrachloroethene
PENTADEC	pentadecane
PHEN	phenanthrene
t12DCE	trans-1,2-dichloroethene
TCE	trichloroethene
TMBs	combined masses of 1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene
TOL	toluene
TPH	total petroleum hydrocarbons
TRIDEC	tridecane
UNDEC	undecane
VC	vinyl chloride

SUMMARY OF SAMPLING RATE CALIBRATION FOR AGI UNIVERSAL SAMPLER IN AQUEOUS PHASES

INTRODUCTION:

The Amplified Geochemical Imaging, LLC (AGI) passive vapor sampler is designed to be used for soil gas, water, sediment pore water, and air sampling. This document describes the process used to calibrate the sampler's compound specific sampling or uptake rates in aqueous phases.

Sampling rates are measured following AGI's "Standard Practice for Determining the Sampling Rate of Passive Diffusion Samplers in Various Environmental Media": SPG-SOP-0493. Rates are used to calculate dissolved phase concentrations of volatile and semi-volatile contaminants in water. The calibration process is summarized in three parts: Part 1: shallow water, Part 2: deep water, and Part 3: sediment.

PURPOSE:

The purpose of this document is to:

1. Summarize the test protocol,
2. Summarize the methodology for analysis of data,
3. Present general results for generating concentration calibration of the AGI Universal Sampler

Principle of Operation of the AGI Samper

The AGI Universal Sampler is designed with solid adsorbents enclosed inside a tubular microporous PTFE membrane. When placed in water, the pores and hydrophobic nature of the PTFE keep liquid water from entering the membrane until a water head of about 34 feet is reached. The membrane will not keep water vapor from entering but the adsorbents are very hydrophobic and through testing validated to be unaffected by this moisture vapor. In shallow water, <34', volatile and semi-volatile compounds will partition from the dissolved water into the air phase in the PTFE membrane according to Henry's Law. This partitioning is instantaneous and within seconds-minutes, the compound is adsorbed by the adsorbent inside the sealed tube. Because the diffusivity in air is about 10,000 times higher than the diffusivity in water, the sampling rate is controlled by the water contact area of the membrane that allows the Henry's Law effect to occur. This contact area is set by the membrane diameter and length of the sealed tube, which is fixed in AGI's manufacturing process.

Henry's law as well as diffusivity, which are fundamentally incorporated into the sampling rate, are affected by temperature, T, and follow an Arrhenius equation $H_T = Hr \times \exp([-Ea/R](1/Tr - 1/T))$. Because a 5°C temperature change can make a 15% change in sampling rate, the temperature of the sampled water should be known to get the most precise concentration.

The membrane pore size is also small enough that colloidal particles and microbes cannot pass through the membrane. This keeps the adsorbent from getting contaminated and eliminates any need to add preservative or chilling during storage or transportation.

When the water pressure exceeds the water entry pressure of the membrane, about 34 feet of water, the water becomes in contact with the solid adsorbent. Under this condition the compounds in the water will partition from the water into the solid. The partitioning coefficient, K_{AW}, can be approximated by the octanol-water coefficient, K_{OW}, but has been measured more precisely in the lab for AGI's specific solid adsorbent. The sampling rate is the product of the sampling rate at <34' of water and the K_{AW}.

In sediment, the sampler measures pore-water concentration, which is generally agreed to be the preferred measurement as it is more indicative of bioavailability. In sediment the volumetric

availability of water to the sampler is reduced by the volume fraction solids in the sediment, which typically varies from zero to 35%, but can be has high at 73% in well packed and broad particle size distribution sediments. As a result, sampling rates in sediment are multiplied by the fraction pore water in the sediment to determine concentration.

PART 1: Calibration in shallow water

Part 1 summarizes the work in shallow water generating calibration data, evaluating the physical and chemical factors affecting the sampling rate, and measurement of the actual sampling rates or regression calibration equations needed to determine concentrations.

Sample Generation in water

In this calibration work, solutions of analytes at known concentrations were formulated in clean 4 liter smoked glass jugs by injecting microliter measured amounts of environmental standards using a calibrated syringe into pure or deionized water and stirring for a minimum of 2 hours but generally overnight. Headspace in the jugs was minimized and generally less than 1% by volume during the tests. Jugs were temperature controlled by placing them in a water filled cooler, chilled via a cooper tubing loop in the cooler. Temperature was measured with a certified digital temperature gauge and an average value used for each temperature experiment.

AGI samplers were weighted so they won't float and placed in the jugs at time zero. They were removed at various intervals to generate samples along with duplicates that showed mass increasing with exposure time. The sampler exposure time was selected to span minutes to hours and was generally reduced for high concentration tests to maintain uptake with time in roughly the linear dynamic range. Samplers were removed and dried with a paper towel and returned to their original container for analysis. They were analyzed by AGI's 8260C (SPG-WI-318 or SPG-WI-10028) method in duplicate, which is based on EPA SW846 Method 8260C.

Water samples were also taken and measured at an outside accredited lab using EPA SW846 Method 8260B. The concentrations agreed well with the calculated concentrations based on the standard certification, jug volume, and syringe injection. The variability of the outside lab 8260B values were found to be high, so for the sampling rate calculations we used the concentrations based on syringe dosing.

Calibrations were run at five concentrations, nominally at 6, 24, 118, 590, 1420 ug/L and five temperatures nominally at 5, 10, 15, 20, and 25 degrees centigrade. Samples were taken at 4 different exposure times. Samples were run in duplicate. A total of 176 data points were generated using 28 compounds from AGI's standard compounds list. Tridecane and pentadecane were not evaluated due to their very low solubility in water. In addition, another 23 compounds were tested using an 8260 liquid standard at nominal concentrations of 0.5, 1.0, 5.0, 15, 95, and 470 ug/L at a temperature typical of groundwater, 15°C. This is a living calibration and as additional data are generated, they may be qualified and added to this data set to improve the precision of the sampling rate calibration and broaden the compound list.

Key Variable Effects

As expected from theory, at short to moderate exposure times, mass will increase roughly linearly proportional to exposure time, as well as proportional to concentration, and exponentially with temperature following Arrhenius law. Temperature affects the Henry's law as well as diffusivity in water. Sampling rate is generally independent of concentration and time at mass values significantly below saturation. In the following sections we have characterized the sampling rate for each compound as affected by temperature and also developed calibrations using regression which account for the minor impact of time, and mass.

Concentration using Simple Sampling Rate Determination

A simple way to determine concentration is to measure mass on the AGI sampler, divide by exposure time, and divide by sampling rate, SR.

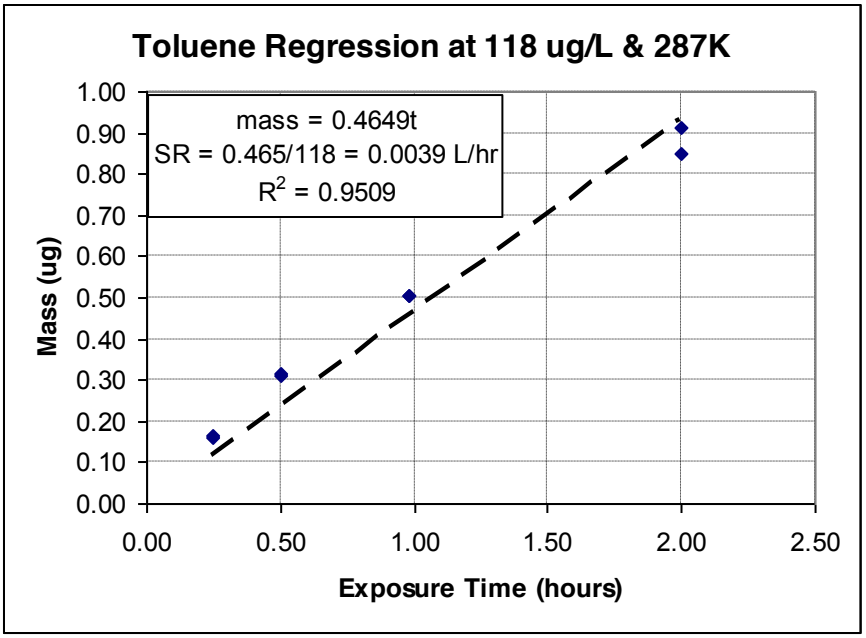
Conc [ug/L] = mass/time/SR (1)

The sampling rate can be determined via measurements of mass versus time at a known concentration and temperature according to the following modification of equation (1).

SR = mass/time/concentration (2)

Sampling rates in L/hr were determined by measuring the trend or regression mass uptake versus time and dividing by the concentration. A measurement like this will use 8 data points (4 times x 2 samples). Such a sampling rate can be measured at any concentration and temperature.

The chart to the right shows a plot of mass versus time for water at 118 ug/L and 287K (actual data from a single run). Slope of 0.465 ug/hr divided by the concentration of 118 ug/L yields a sampling rate, SR, of 0.0039 L/hr.



SR's typically range from about 0.004 to 0.007 L/hr at 15°C. Table A shows SR's measured for our standard compound list at 5 temperatures.

Rigorous Concentration using Regression

A preferred method for determining concentration that will yield improved accuracy over a wide range of concentrations, exposure times, and temperatures is to use all data in a regression analysis, which allows adjustments for the minor non-linear influences of mass and time as well as the effects of temperature. This step is done by regressing equation (1) or a universal version of equation (1):

$$Conc = (mass)^{b} / (time)^{-d} / [-SRo * \exp(-Ea/R/T)] \quad (3)$$

The subtle non-linear effects of mass and time will be evident in the deviation of coefficients b and d from 1.0. This regression generates four constants b, d, SRo, and –Ea/R by regressing ln(conc) versus ln(mass), ln(time), 1/temp. These four constants can be used to determine concentration via the equation:

$$Conc = (mass)^{b} / (time)^{-d} / [-SRo \times \exp(-Ea/R(1/T))] \quad (4)$$

Where conc is in ug/L, mass is in ug, time in hours, T in degrees Kelvin.

Equation (4) an be also expressed at a reference temperature, Tr, such as 15°C by

$$Conc = (mass)^{b} / (time)^{-d} / [-SRr \times \exp(-Ea/R(1/Tr-1/T))] \quad (5)$$

This step allows sampling rates, SRr, at any reference temperature, Tr, and for any analyte to easily be compared. The values of SRr at 293.14K can be found in Table A.

When sampling times are between 0 and 4 hours, using the 4 constant equation (5) is preferred. For concentrations from about 5 to 1500 ug/L one hour exposure times generally give the lowest error, typically with average error of 6-20% and with total error range of 12%-32%. For low concentrations where sampling times are greater than 4 hours, it is preferred to use equation (1) to avoid unrealistic effects from the coefficient d or to set d to 1.0. In such a case SR in equation (1) can be substituted with [SRr x exp(-Ea/R(1/Tr-1/T))] to use an SR representative of the well temperature, T.

The chart to the right is a plot of the calculated concentration from the 4 constant regression compared to the dosed concentration. Agreement is excellent for the 176 data points.

However, there does appear to be a slight high bias of 8.6% over the full range of this data, although it is well within acceptable limits of variability.

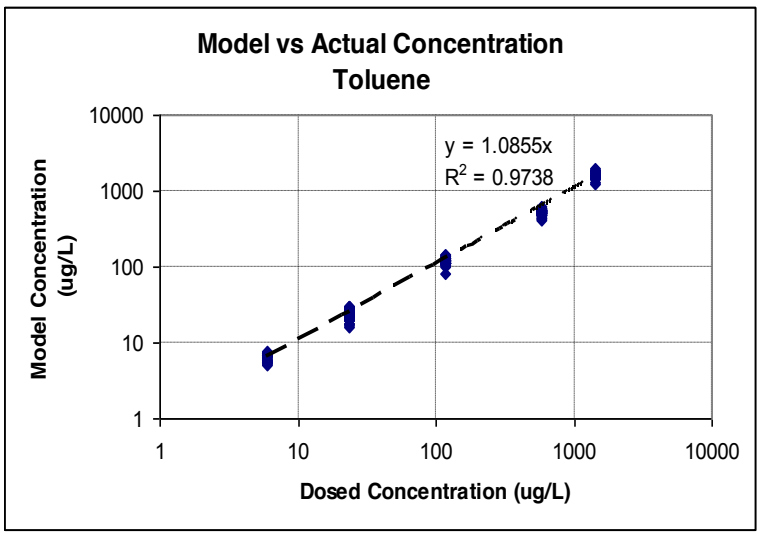


Table B shows the tabulated summary of the 4 constants regression with Rsq values and error estimates for the 4 constants for each analyte. Most regression Rsq values are 0.99 or greater for each analyte. In general, -Ea/R is about 2400+/-400, b is about 0.9, d is about -0.75, and SR(15°C) ranges from .004 L/hr to 0.007 L/hr increasing with MW of the compound.

Error Estimates

The error in the water concentration values will depend on both the error in mass from the analytical method as well as the error in the concentration calibration. Table C shows the error in the mass values from the 8260C low sensitivity method.

The standard error of the regression and standard errors of the constants can be found in table B. For each compound we have measured the error between the derived concentration and the actual concentration. The error tends to be lowest at our recommended exposure time of one hour as shown by the example for Toluene to the right.

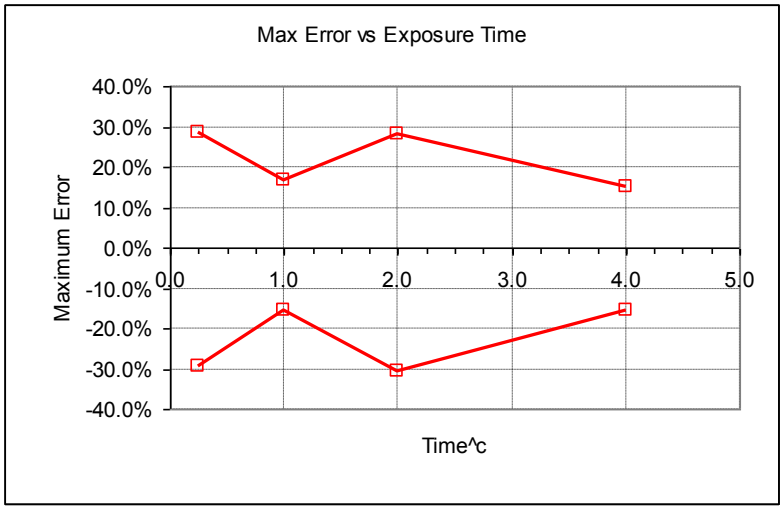
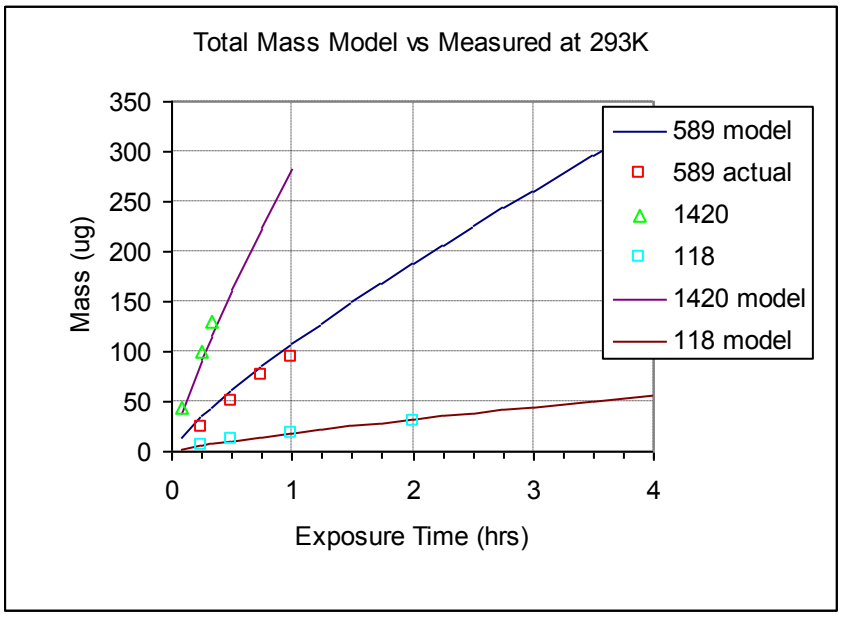


Table D shows the total average error in water concentration by compound as well as the low and high error. The average ranges from about 6% to 20%, which is similar to the analytical method errors. The low and high errors range from 12% to 32% and include contribution from measurement errors in both time and temperature.

Sorbent Saturation

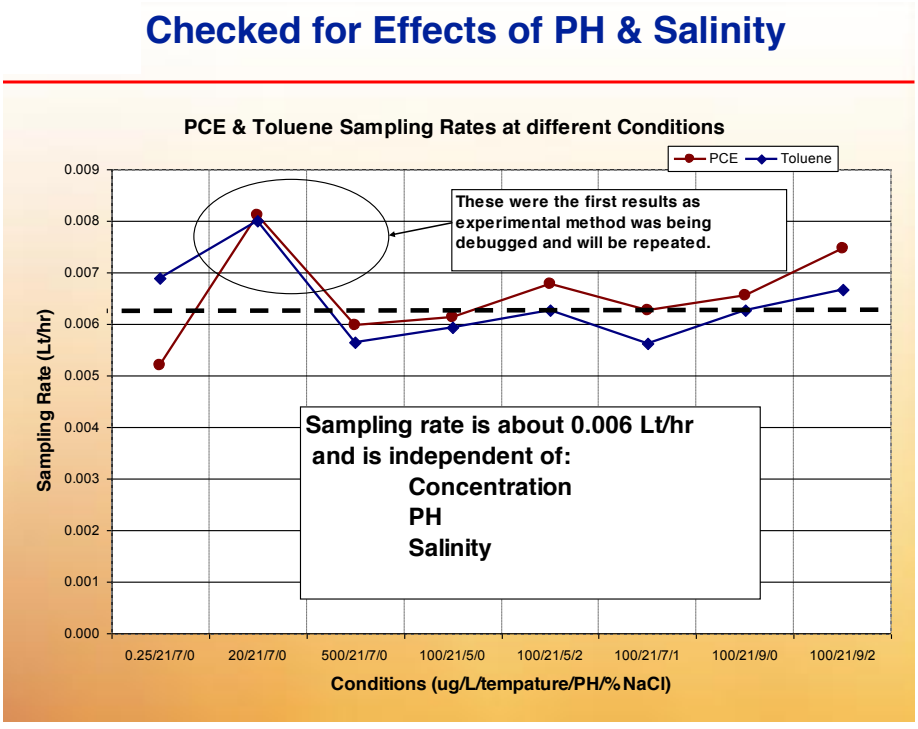
As mass increases on a solid sorbent and approaches saturation, reverse diffusion can occur causing the sampling rate to drop. Eventually the mass level will reach a maximum steady state value at any concentration. A rate of mass uptake with time that deviates significantly from linear, indicates that sorbent saturation could be an issue. When using equation (1), staying in the linear range to avoid the effects of adsorbent saturation is important. We recommend keeping the total mass on the sampler below 50 ug or flagging when this is exceeded.

The 4 constant regression accounts for some of the non linearity allowing good accuracy at higher mass levels. From the experimental data we have found this safe range can be extended to 100 ug or higher as shown in the chart below. This chart compares total mass of all compounds (excluding heavy alkanes, which have solubility issues) versus time in comparison to that predicted from the 4-constant concentration equation.



Effect of PH and Salinity

Because neither PH nor salinity is known to have a significant impact on Henry's law or diffusivity in water, we did not expect them to have a significant impact on sampling rate. To confirm this, experiments were run varying PH from 5 to 9 and NaCl content from 0 to 2%. The chart below shows no significant impact for combinations of PH and NaCl content over this range on the sampling rate of toluene in water at 21°C.

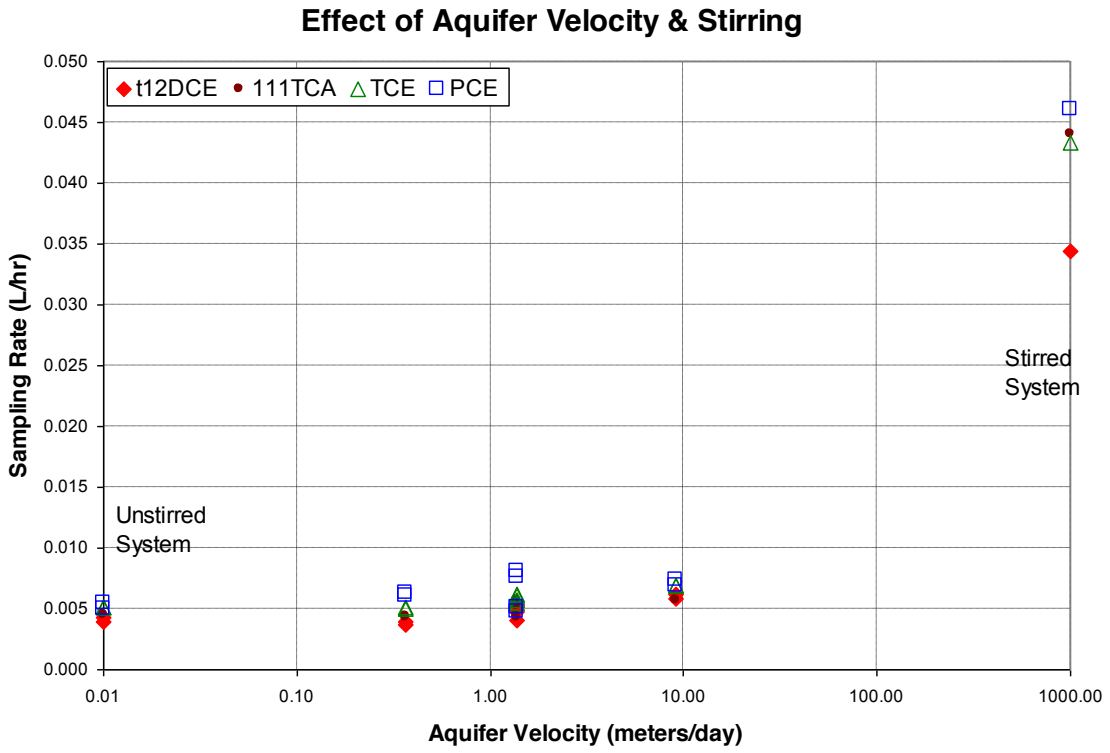


Impact of Aquifer Velocity

The velocity in most aquifers is quite slow, typically a meter/day or less. Occasionally water flow could be much higher such as encountered in karst aquifers, streams or rivers. Mass transfer coefficients are higher in high flow conditions, which will lead to higher sampling rates. We validated that a highly stirred system had sampling rates about 10 times higher than those that were non-stirred. We decided to evaluate the effect of aquifer velocity.

A test apparatus was built comprising a 3" PVC pipe tee filled with clean sand in each of the horizontal straight legs and screened to leave the center open. A test solution was run through this system using a variable flow pump and AGI samplers were placed into the simulated well through the vertical leg of the tee. Tests were run to examine the effect of velocity by varying the pumping rate and hence water velocity.

The chart below shows no significant effect of aquifer velocity up to a speed of about 10 meters/day. At velocities significantly above this, similar to a stirred system, sampling rates are about 10 times higher.

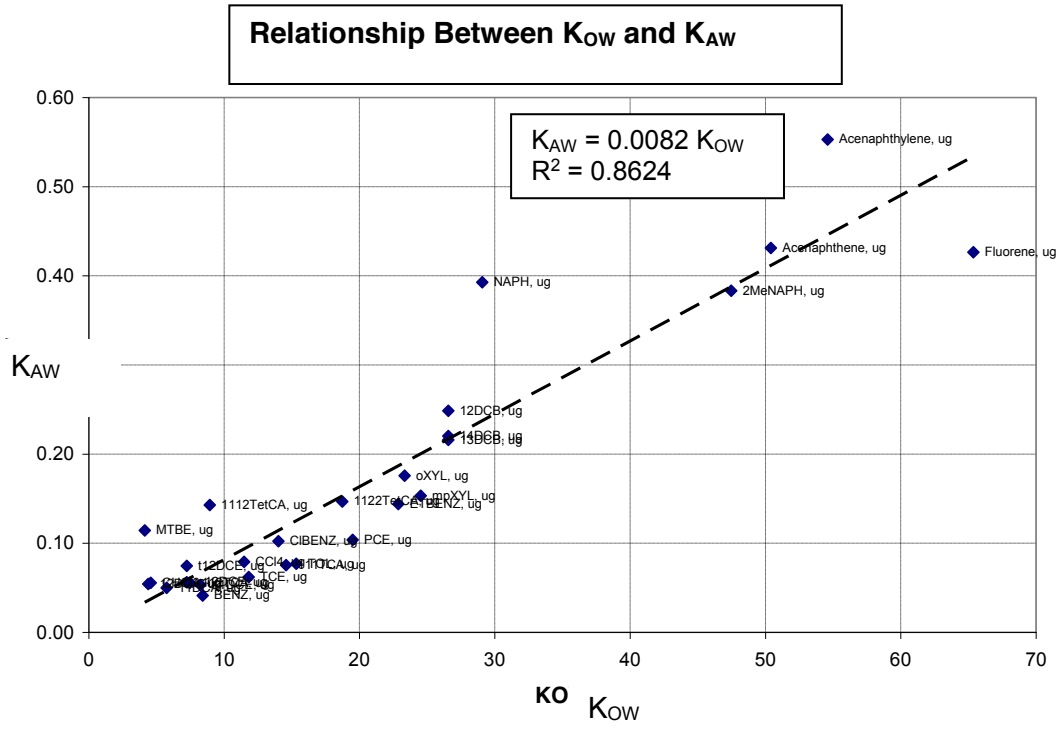


Part 2: Calibration in Deep (>34') water

Part 2 describes the effect of deep water on the AGI sampler and summarizes the effects on sampling rate and concentration measurement.

When the water pressure exceeds the water entry pressure of the membrane, about 34 feet of water, the water becomes in direct contact with the solid adsorbent. Under this condition the compounds in the water will partition from the water into the solid. The portioning coefficient is closely related to the octanol-water coefficient, K_{OW}, but has been measured more precisely in the lab for AGI's specific solid adsorbent, K_{AW}. The sampling rate for deep water is the product of the sampling rate at <34' of water and the K_{AW}.

Measurement of the K_{AW} was done in a one liter stainless steel vessel pressurized with nitrogen to simulate water heads above 34' of water. Pressures of up to 465 psig or 200' of water head were used. The sampling rate change was the same at all pressures above 34' of water. The K_{AW} was determined as the ratio between the mass or sampling rate above 34' of head to the rate at <34' of head and is shown in the chart below.



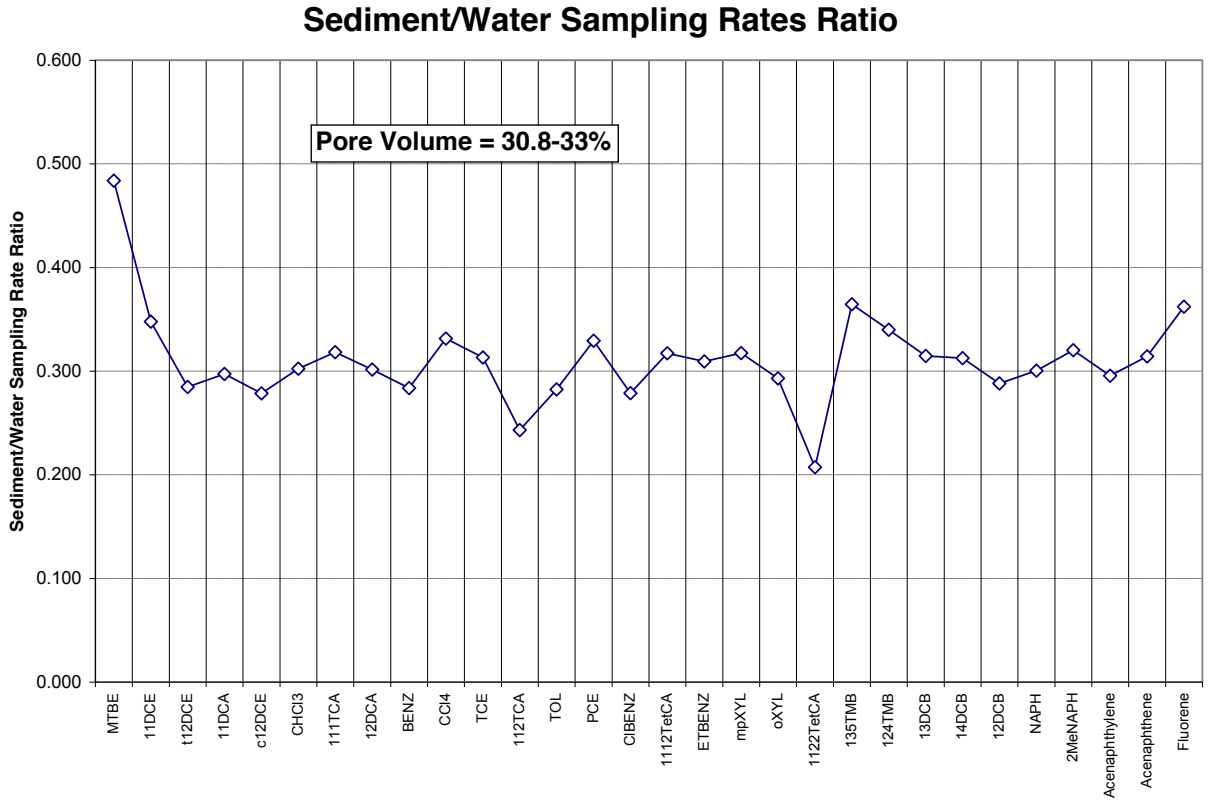
Part 3: Calibration in Sediment

Part 3 describes the effect of sediment solids or sediment pore volume on the sampling rate and concentration measurement.

In sediment, the sampler measures pore water concentration, which is generally agreed to be the preferred measurement as it is more indicative of bioavailability. In sediment the volumetric availability of water to the sampler is reduced by the volume fraction solids in the sediment. As a result sampling rates in sediment are multiplied by the fraction pore water to determine

concentration. Pore water fraction can range from 1.0 for water without sediment to as low as 0.25. Typically most sediments have pore fractions of 0.9 to 0.65.

A sampling rate study was done with water and with water added into a well-packed sorted sand. Pore water fraction in this test was measured between 30.8% and 33% by volume. Below is a plot of the ratio of sampling rates measured in the sediment to open water. The average ratio is equal to the pore water fraction confirming that sampling rate in sediment is on average equal to the product of pore water fraction times the sampling rate in water.



Summary

The AGI Sampler can be used to determine the concentration of volatile and semi-volatile compounds in a water phase. This requires knowing the exposure time and water temperature. It also requires knowing if the sample is above or below 34' of water head and if the water has a velocity above 10 meters/day. Regressions of large amounts of data were used to generate a four constant equation to generate concentration values in water. Potential error in the concentration values is excellent typically less than 25%.

AMPLIFIED GEOCHEMICAL IMAGING LLC

TABLE A

WATER SAMPLING RATES STANDARD LIST

	SRr 293.14	SR @ 277.54	SR @ 282.44	SR @ 287.84	SR @ 293.24	SR @ 298.94
MTBE	0.0025	0.0014	0.0016	0.0018	0.0022	0.0029
t12DCE	0.0043	0.0028	0.0028	0.0027	0.0037	0.0048
11DCA	0.0047	0.0031	0.0033	0.0033	0.0039	0.0052
c12DCE	0.0046	0.0030	0.0031	0.0031	0.0038	0.0051
CHCl3	0.0046	0.0030	0.0031	0.0031	0.0038	0.0051
111TCA	0.0066	0.0043	0.0047	0.0047	0.0056	0.0076
12DCA	0.0045	0.0029	0.0029	0.0030	0.0036	0.0050
BENZ	0.0050	0.0031	0.0034	0.0035	0.0042	0.0056
CCl4	0.0068	0.0044	0.0048	0.0047	0.0058	0.0080
TCE	0.0052	0.0030	0.0034	0.0034	0.0043	0.0058
112TCA	0.0043	0.0027	0.0027	0.0028	0.0034	0.0048
TOL	0.0056	0.0034	0.0039	0.0039	0.0047	0.0062
OCT	0.0064	0.0046	0.0050	0.0040	0.0058	0.0089
PCE	0.0061	0.0036	0.0043	0.0043	0.0051	0.0069
ClBENZ	0.0054	0.0033	0.0039	0.0040	0.0045	0.0059
1112TetCA	0.0061	0.0037	0.0042	0.0044	0.0050	0.0065
EtBENZ	0.0060	0.0037	0.0045	0.0044	0.0052	0.0069
mpXYL	0.0064	0.0039	0.0048	0.0046	0.0055	0.0072
oXYL	0.0066	0.0041	0.0050	0.0048	0.0057	0.0074
1122TetCA	0.0044	0.0027	0.0029	0.0031	0.0036	0.0046
135TMB	0.0079	0.0046	0.0059	0.0056	0.0071	0.0093
124TMB	0.0078	0.0046	0.0060	0.0055	0.0071	0.0092
13DCB	0.0072	0.0041	0.0055	0.0053	0.0063	0.0080
14DCB	0.0071	0.0040	0.0054	0.0052	0.0062	0.0079
12DCB	0.0070	0.0040	0.0053	0.0051	0.0060	0.0076
UNDEC		0.0026	0.0024	0.0020	0.0031	0.0029
NAPH		0.0041	0.0056	0.0054	0.0064	0.0081
TRIDEC						
2MeNAPH		0.0043	0.0066	0.0066	0.0080	0.0108
PENTADEC						
Total mass	0.1177	0.0822	0.1339	0.1334	0.1773	0.1981

Notes:

Values in L/hr

Total mass does not include UNDEC, TRIDEC, PENTADEC (28 compounds)

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TABLE B

4 CONSTANT REGRESSION OUTPUT

	Adjusted Rsq	Standard Error	ln(SR0)	b	-Ea/R	d	Std Error ln(SR0)	Std Error b	Std Error -Ea/R	Std Error d
MTBE	0.997	0.0960	-3.217	0.981	2704	-0.709	0.2881	0.0062	83	0.0082
t12DCE	0.992	0.1659	-1.877	0.905	2147	-0.760	0.4971	0.0100	144	0.0138
11DCA	0.995	0.1272	-1.346	0.916	1965	-0.746	0.3809	0.0077	110	0.0106
c12DCE	0.995	0.1299	-1.905	0.911	2137	-0.751	0.3892	0.0078	112	0.0109
CHCl3	0.996	0.1260	-1.841	0.912	2118	-0.748	0.3776	0.0076	109	0.0105
111TCA	0.995	0.1279	-2.684	0.902	2259	-0.761	0.3836	0.0076	111	0.0106
12DCA	0.995	0.1263	-2.161	0.908	2218	-0.746	0.3786	0.0076	109	0.0106
BENZ	0.995	0.1323	-2.207	0.920	2198	-0.754	0.3965	0.0080	114	0.0110
CCl4	0.994	0.1405	-3.121	0.889	2379	-0.776	0.4220	0.0083	122	0.0116
TCE	0.992	0.1655	-3.338	0.900	2522	-0.772	0.4969	0.0099	144	0.0137
112TCA	0.995	0.1264	-2.412	0.896	2302	-0.724	0.3790	0.0075	109	0.0107
TOL	0.994	0.1426	-2.873	0.916	2364	-0.756	0.4281	0.0087	124	0.0119
OCT	0.938	0.4698	-5.984	0.822	3235	-0.827	1.4231	0.0277	412	0.0388
PCE	0.991	0.1773	-3.780	0.877	2601	-0.775	0.5329	0.0103	154	0.0147
ClBENZ	0.994	0.1457	-2.601	0.911	2292	-0.747	0.4370	0.0088	126	0.0122
1112TetCA	0.996	0.1235	-2.676	0.898	2281	-0.725	0.3705	0.0073	107	0.0104
EtBENZ	0.993	0.1597	-2.930	0.918	2357	-0.752	0.4794	0.0097	138	0.0134
mpXYL	0.992	0.1678	-3.036	0.909	2372	-0.749	0.5037	0.0101	145	0.0140
oXYL	0.993	0.1555	-2.862	0.911	2312	-0.740	0.4667	0.0094	135	0.0131
1122TetCA	0.996	0.1118	-1.971	0.913	2167	-0.691	0.3351	0.0067	97	0.0096
135TMB	0.988	0.2024	-4.435	0.897	2720	-0.738	0.6093	0.0121	176	0.0170
124TMB	0.989	0.1997	-4.126	0.890	2631	-0.731	0.6009	0.0118	173	0.0169
13DCB	0.991	0.1832	-3.422	0.888	2449	-0.730	0.5503	0.0108	159	0.0155
14DCB	0.991	0.1802	-3.263	0.892	2408	-0.724	0.5413	0.0107	156	0.0153
12DCB	0.992	0.1697	-2.970	0.894	2327	-0.716	0.5092	0.0101	147	0.0144
UNDEC	0.694	0.374	-1.406	0.426	1708	-0.806	1.792	0.028	517	0.053
NAPH	0.992	0.166	-3.374	0.915	2430	-0.671	0.497	0.010	144	0.014
TRIDEC										
2MeNAPH	0.984	0.238	-5.498	0.869	2990	-0.689	0.72	0.014	208	0.021
PENTADEC										
Total mass	0.993	0.1543	-6.111	0.907	2419	-0.732	0.4666	0.0093	134	0.0130

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TABLE C

8260C MASS UNCERTAINTY

AGI 8260C Method for Mass using SPG-0008 Samplers

	99% Uncertainty Range +/-	95% Uncertainty Range +/-
MTBE	20%	14%
t12DCE	22%	15%
11DCA	18%	12%
c12DCE	18%	12%
CHCl3	16%	11%
111TCA	18%	12%
12DCA	20%	13%
BENZ	16%	10%
CCl4	19%	12%
TCE	15%	10%
112TCA	18%	12%
TOL	15%	10%
OCT	20%	13%
PCE	16%	11%
ClBENZ	18%	12%
1112TetCA	19%	13%
EtBENZ	18%	12%
mpXYL	18%	12%
oXYL	18%	12%
1122TetCA	23%	15%
135TMB	21%	14%
124TMB	20%	14%
13DCB	19%	13%
14DCB	19%	13%
12DCB	20%	14%
NAPH	21%	14%
2MeNAPH	25%	17%

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TABLE D

4 CONSTANT WATER CONCENTRATION UNCERTAINTY

ERROR IN CONCENTRATION REPORTING (1)

	Average Error	Minimum Error	Maximum Error
MTBE	6%	-12%	12%
t12DCE	11%	-26%	21%
11DCA	8%	-19%	13%
c12DCE	9%	-19%	15%
CHCl3	9%	-20%	14%
111TCA	9%	-19%	23%
12DCA	10%	-19%	17%
BENZ	8%	-18%	13%
CCl4	10%	-23%	22%
TCE	10%	-21%	14%
112TCA	11%	-21%	21%
TOL	7%	-17%	14%
OCT	20%	-41%	42%
PCE	10%	-24%	15%
ClBENZ	7%	-16%	14%
1112TetCA	8%	-17%	18%
EtBENZ	6%	-19%	14%
mpXYL	7%	-22%	13%
oXYL	7%	-19%	13%
1122TetCA	8%	-16%	17%
135TMB	9%	-23%	17%
124TMB	10%	-28%	19%
13DCB	10%	-22%	17%
14DCB	10%	-22%	17%
12DCB	9%	-23%	17%
NAPH	10%	-24%	21%
2MeNAPH	13%	-32%	30%

(1) For 1 hour exposure, includes error related to mass value from AGI analytical method 8260C

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Tel: +1-302-322-2428
email: info@agisurveys.net

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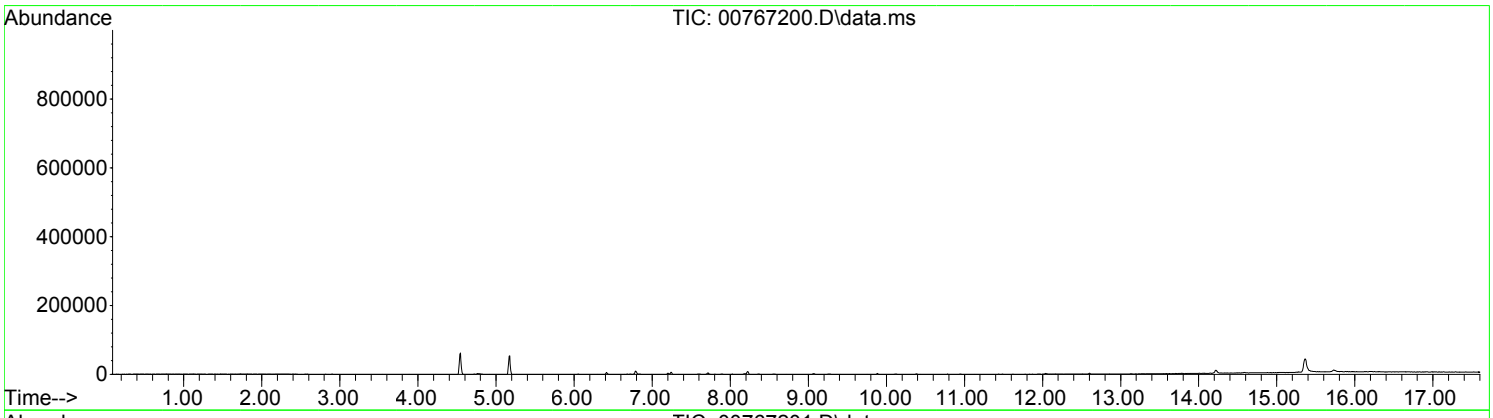
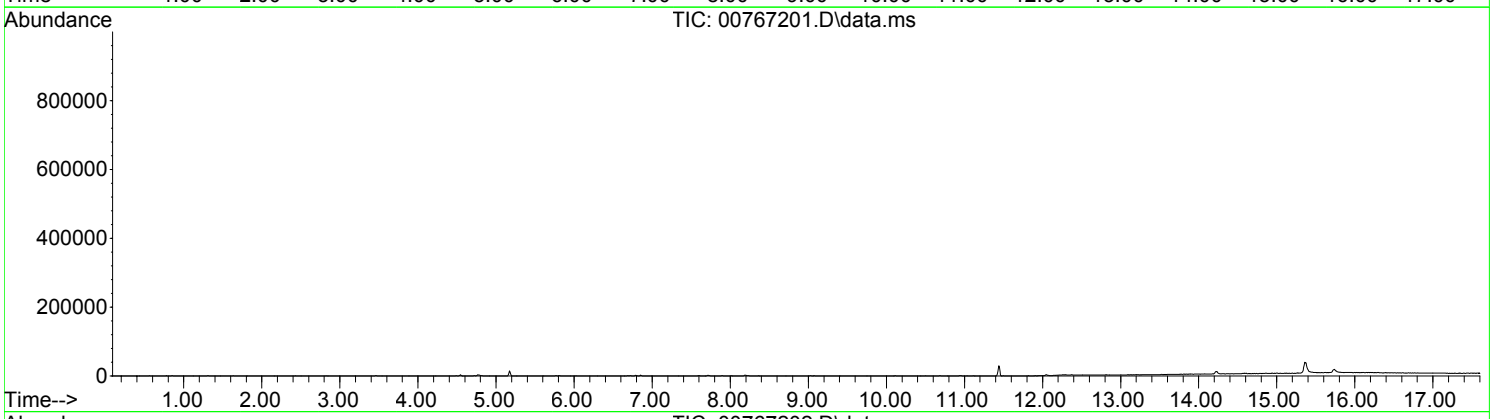
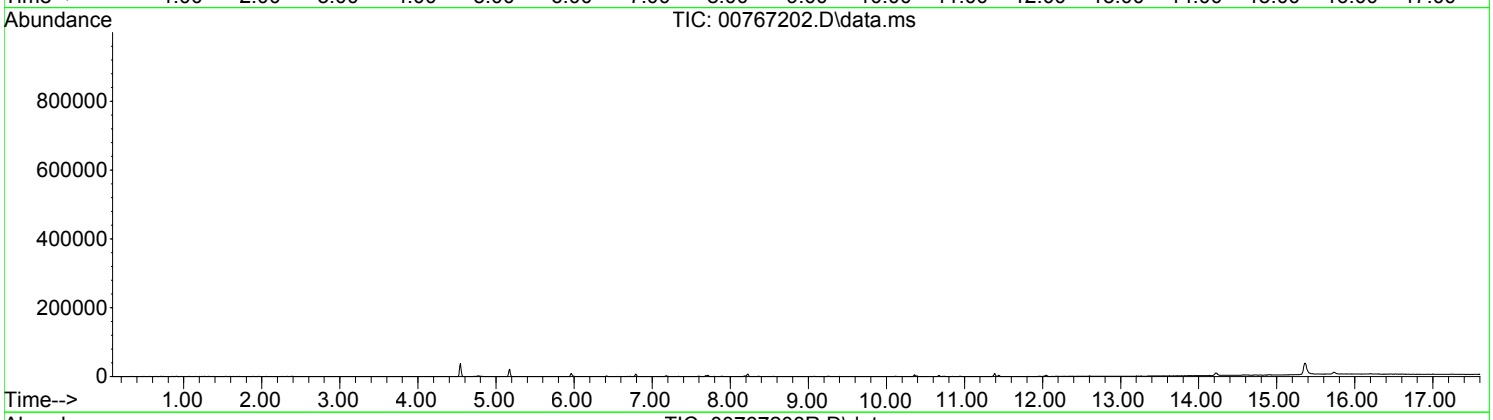
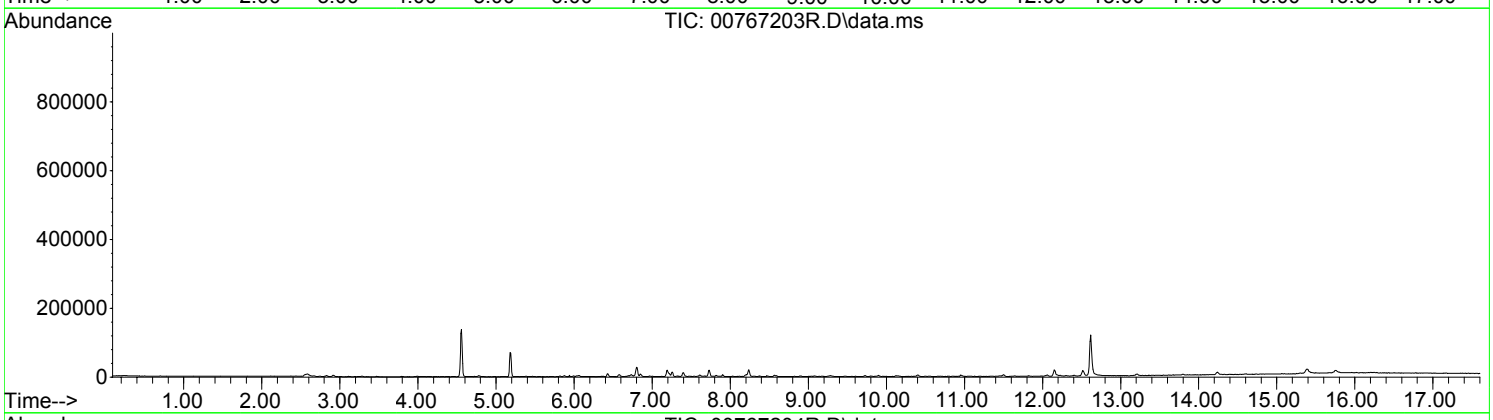
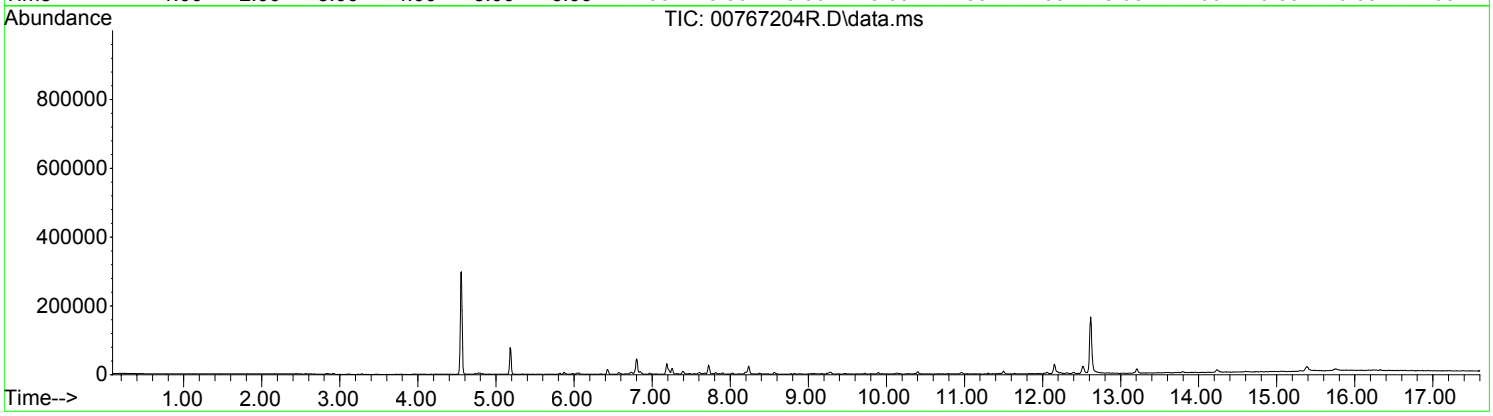
TICS - 01464
In Numerical Order



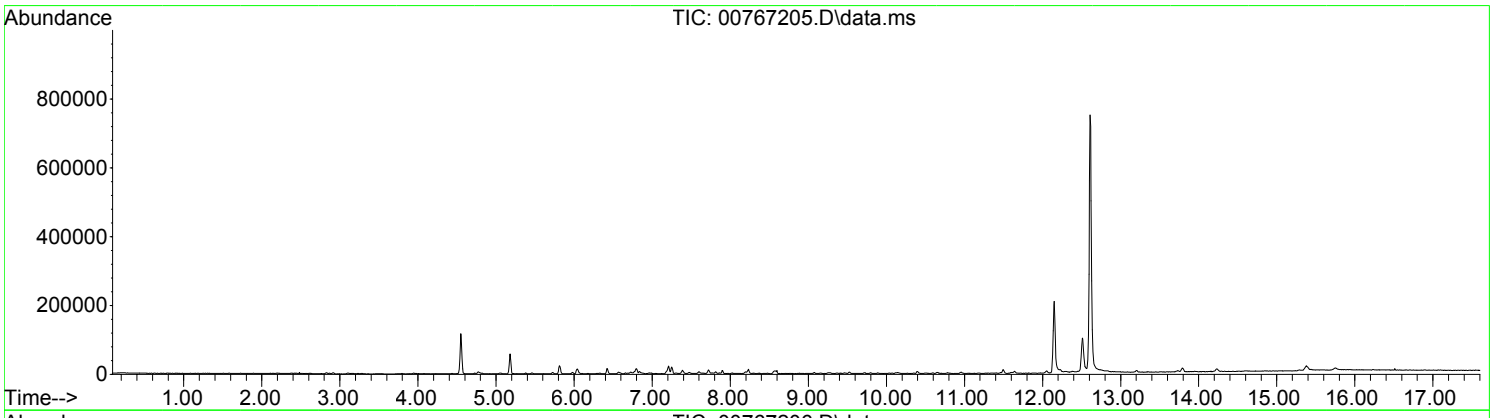


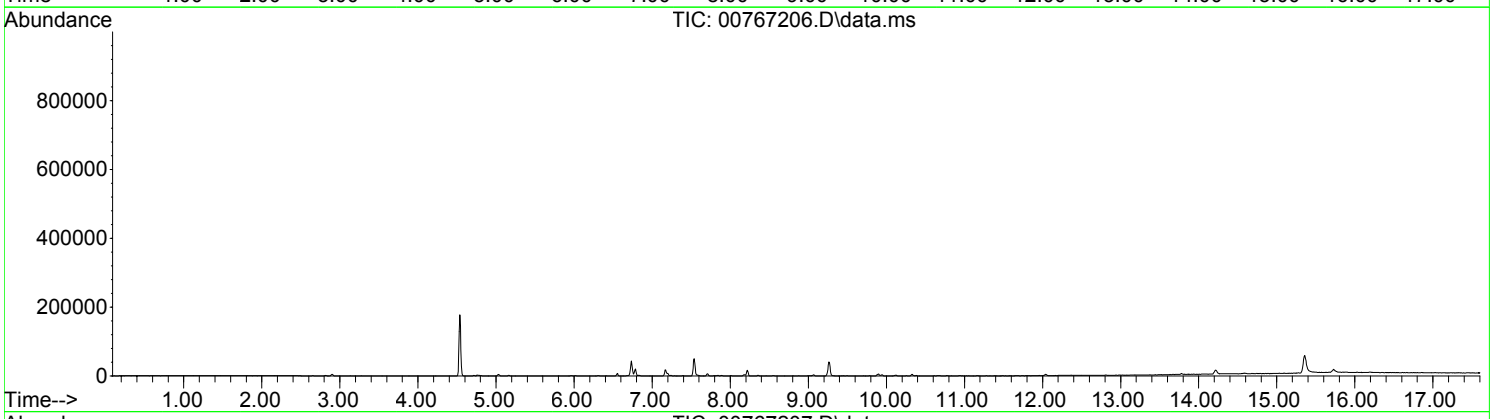


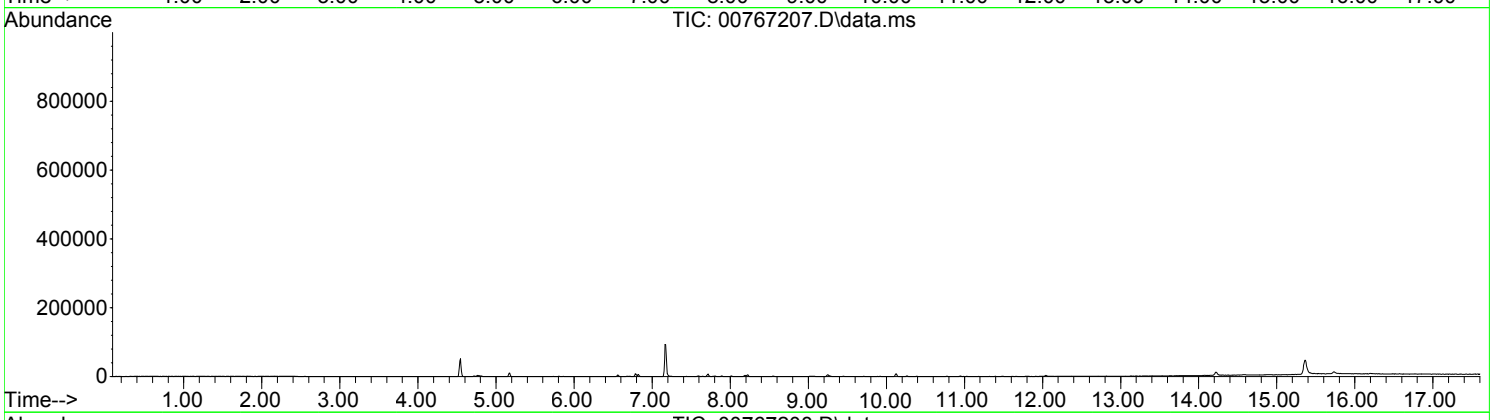


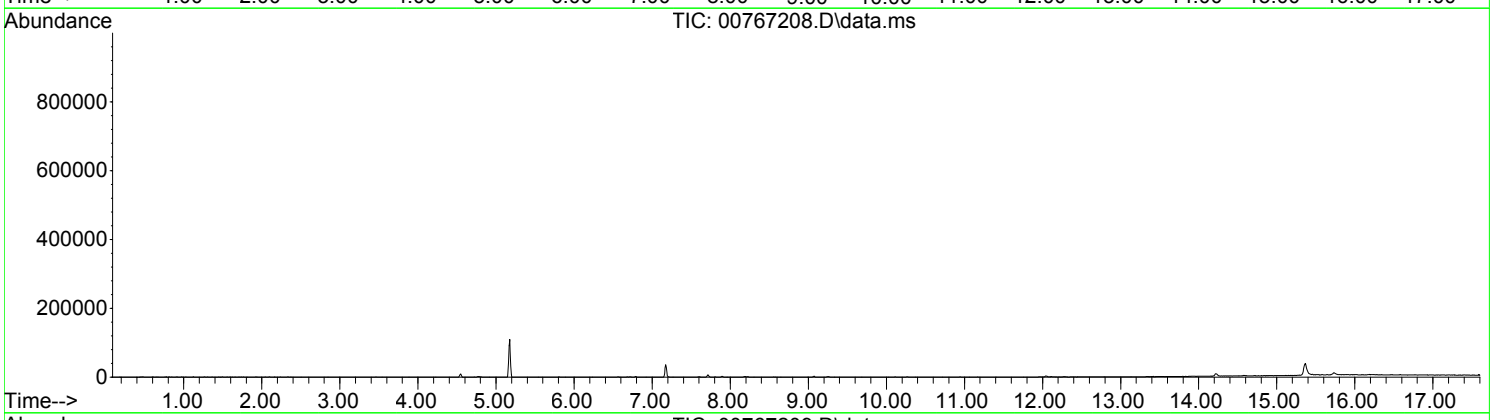


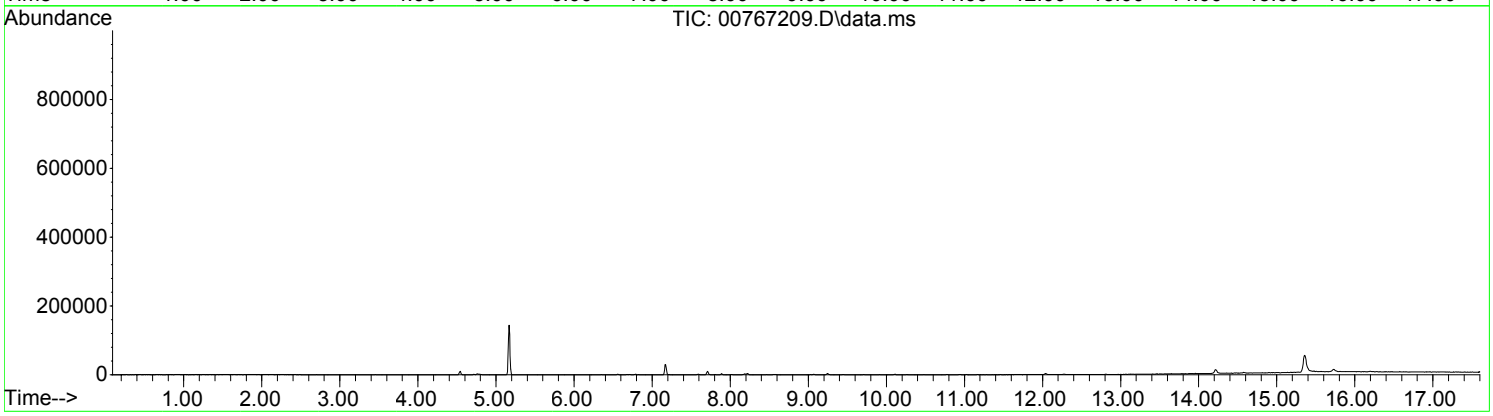
TICS - 01464
In Numerical Order











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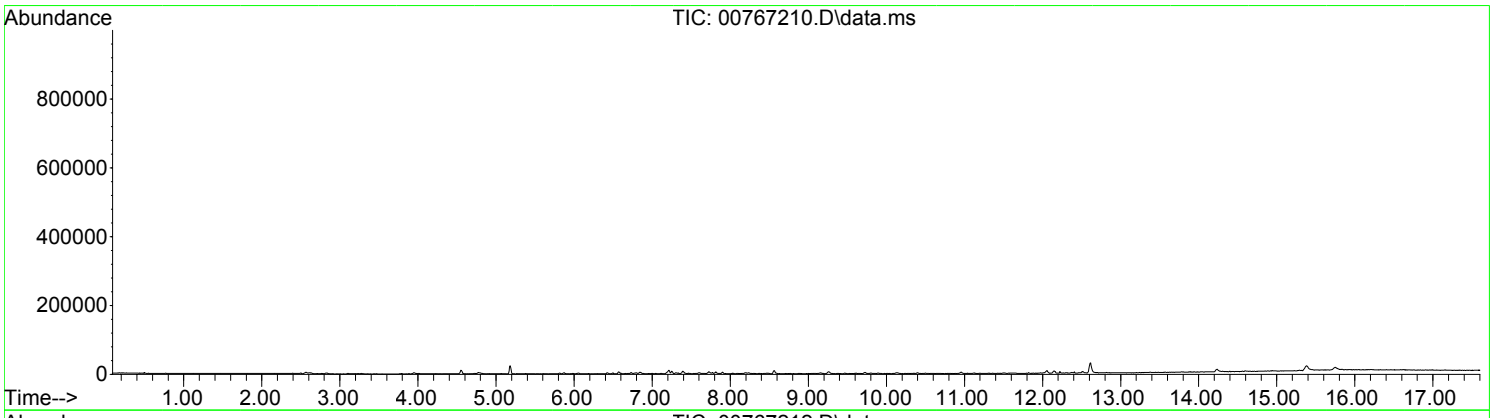

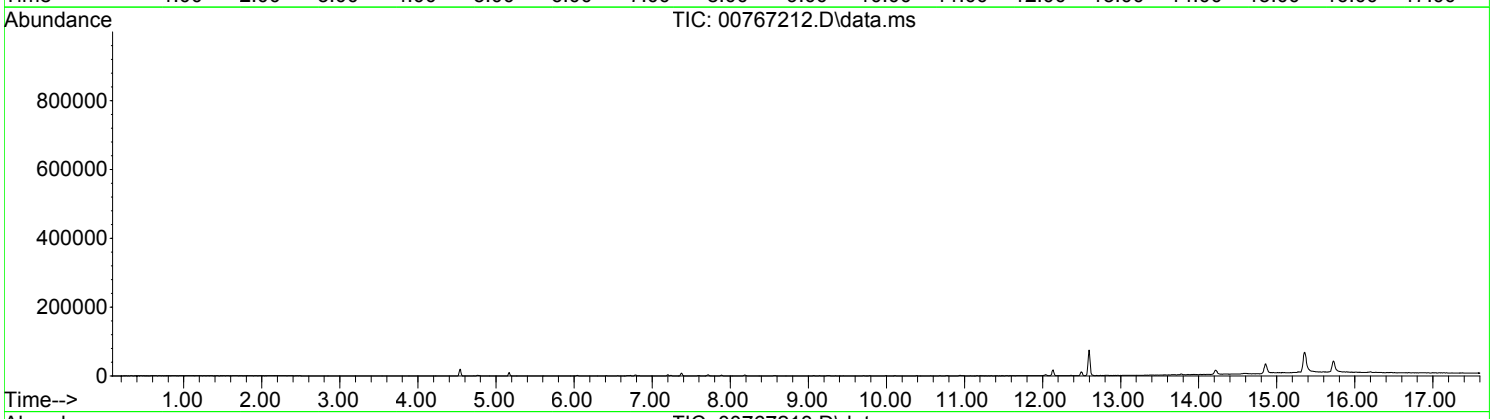

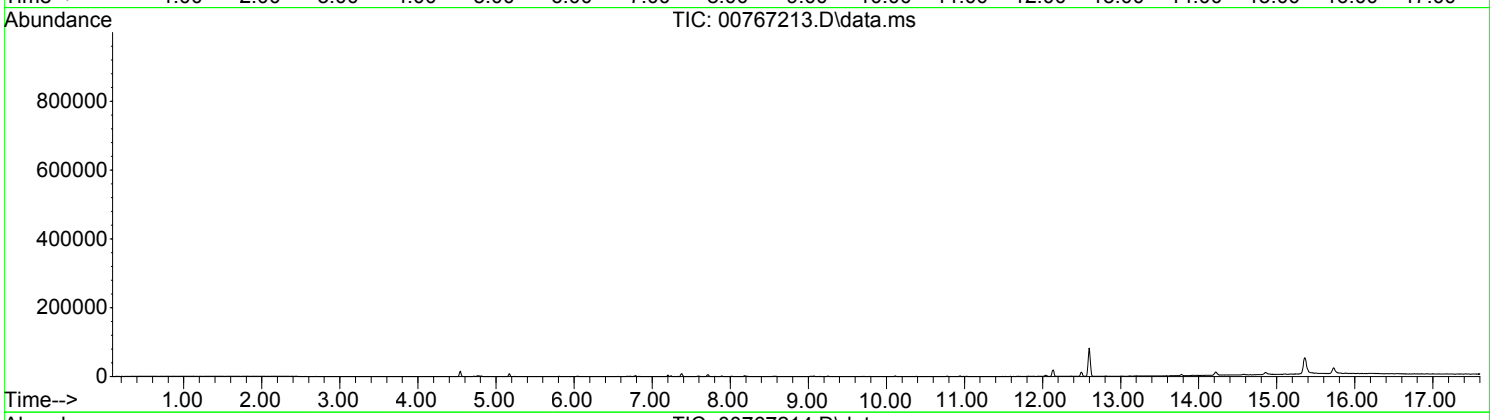

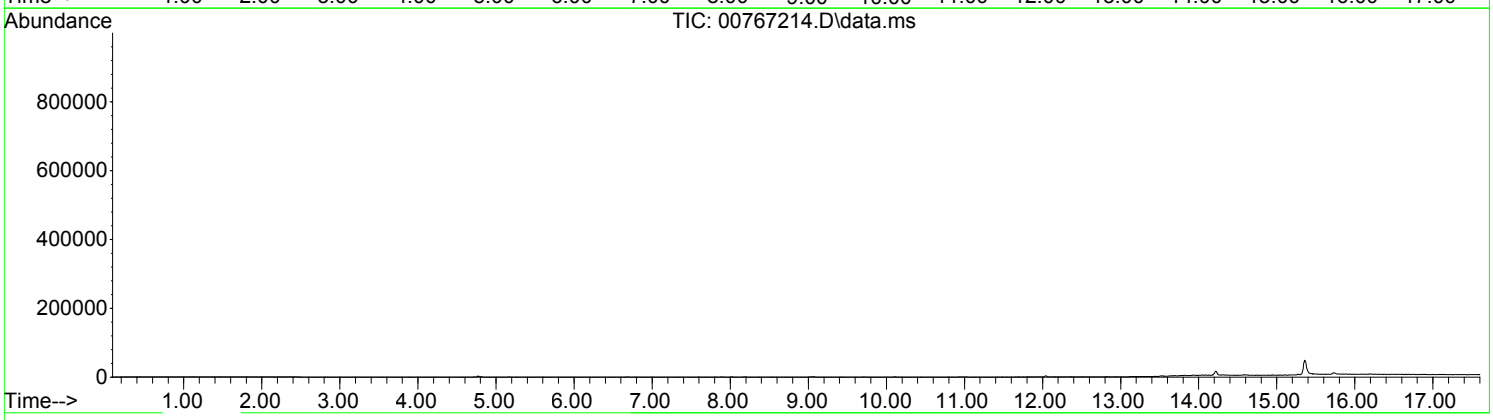

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AMPLIFIED GEOCHEMICAL IMAGING, LLC

Laboratory Report

Site: Comal & San Marcos Rivers
October Sampling

Prepared for:

SWCA Environmental Consultants
10245 Little York Road
Suite 600
San Antonio, TX
UNITED STATES

Prepared on:
October 30, 2015

Project Summary and Objective

Amplified Geochemical Imaging, LLC. (AGI) provided the AGI Environmental Survey used at:

Comal & San Marcos Rivers

October Sampling

The service provided by AGI included delivery of the required quantity of AGI Universal Samplers, analysis by the method described below for the requested organic compounds, reporting of the data, and contour mapping (as needed).

This report includes results for only the samples noted under the Laboratory Sample Report section. If contour maps are part of the project deliverable, the maps will be prepared and issued under a separate report cover, upon receipt of a usable sitemap (electronic) and compound choices for contouring.

Written/submitted by:

Jim E Whetzel

Project Manager

Reviewed/approved by:

Don D'Apolito

Project Manager

Analytical data approved by:

Ian McMullen

Chemist

Quality Assurance Statement

The AGI Laboratory, at Amplified Geochemical Imaging's facility in Newark, DE USA, operates under the guidelines of its ISO Standard 17025 DoD ELAP accreditation, and its Quality Assurance Manual, Operating Procedures, and Methods (SPG-SOP-0462).

For this project, the analytical method, results, and observations reported do [ ] do not [√] fall within the scope of AGI's ISO 17025 accreditation.

Screening/Concentration Method

The AGI Universal Samplers are analyzed at AGI's fixed laboratory using thermal desorption-gas chromatography/mass spectrometry (TD-GC/MS) instrumentation following modified U.S. EPA Method 8260 (SPG-WI-0292) which includes the following:

- **BFB Tuning Frequency:** A BFB tune is analyzed at the start of each analytical run and after every 30 samples.
- **Initial Calibration:** A minimum of a five point calibration curve is analyzed prior to the analysis of samples.
- **Initial Calibration Verification (ICV):** Following the calibration a second-source reference standard is analyzed to verify the accuracy of the calibration. Acceptance criteria for the ICV is +/- 30%.
- **Linearity of Target Compounds:** If the RSD of any target analyte is less than or equal to 25% then average response factor can be used for quantitation. If the RSD exceeds 25% for a target compound a regression equation can be used for quantitation.
- **Continuing Calibration Verification:** After every 10 samples, and at the end of each analytical batch, a mid-level second-source Reference Standard is analyzed. The acceptance criteria for all target analytes in the reference standards are +/- 50% of the true value.
- **Method Blank:** Analyzed prior to the analysis of field samples and every 30 samples.

Note: Analyte levels reported for the field-deployed AGI Universal Samplers that exceed trip and method blank levels, and/or the reporting limit, are more likely to have originated from on-site sources.

Media Sampled:	WATER
Chemist - sample analysis:	Jasmine Smith
Chemist - data processor:	Jasmine Smith
Chemist - data review:	Ian McMullen

Me od e o : o e

Please note that data file names ending with R are rerun samples using the second pair of sorbers, in which the original results were not reported. Data file names ending in D are duplicate analysis results for the second set of sorbers from the same sampler, and are reported.

Additional Report Information

- Comments
- Laboratory Sample Report
- Chain of Custody
- Installation and Retrieval Log
- e and Key
- Concentration Calculation Method Summary
- Total Ion Chromatograms

Project Specific Comments

o e

Survey period [1]	er ere ed o O o er d re r e ed o O o er or e o re er od o d
Tamper seal intact:	Yes
Date received:	10/21/15 1 : 5 am By: Darlene Yellowdy
COC returned:	Yes
Comments:	o e

1 - Installation start to end of retrieval, as reported. See installation and retrieval log for individual deployment and retrieval dates and times (i.e., sampler exposure time).

General Comments

Analytical QA/QC

Laboratory instrumentation consists of gas chromatographs equipped with mass selective detectors, coupled with automated thermal desorption units. Sample preparation involves cutting the tip off the bottom of the AGI Universal Sampler, and transferring one or more "sorbers" to a thermal desorption tube for analysis. The insertion/retrieval cord prevents soil, water and other interferences from coming in contact with the adsorbent. No further sample preparation is required. Any replicate sorbers not consumed in the initial analysis will be discarded fifteen (15) days from the date of the laboratory report.

Data are archived and stored in a secure manner as per AGI's Quality Assurance program (SPG-SOP-0462).

Total petroleum hydrocarbons (TPH), gasoline-range petroleum hydrocarbons (GRPH), and/or diesel range petroleum hydrocarbons (DRPH), when reported, are calculated using the area under the peaks observed in m/z 55 and 57 selected ion chromatograms. Quantitation of the mass values was performed using the response factor for a specific alkane (present in the calibration standards). TPH values include the entire chromatogram and provide estimates for aliphatic hydrocarbon ranges of C4 to C20. GRPH and DRPH include only the relevant regions of the chromatograms and provide estimates for C4 to C10 and C10 to C20 aliphatic hydrocarbons, respectively.

Trip blanks were provided to document potential exposures that were not part of the signal of interest (e.g., impact during sampler shipment, installation and/or retrieval, and storage). The trip blanks are identically manufactured and packaged AGI Universal Samplers to those samplers deployed in the field . The trip blanks remain unopened during all phases of the project. Levels reported on the trip blanks may indicate potential impact to the samplers other than the contaminant source of interest.

Unresolved peak envelopes (UPEs) are represented as a series of compound peaks clustered together around a central gas chromatograph elution time in the total ion chromatogram. UPEs may be indicative of complex fluid mixtures. UPEs observed early in the chromatograms are considered to indicate presence of more volatile fluids, while UPEs observed later in the chromatogram may indicate the presence of less volatile fluids. Multiple UPEs may indicate the presence of multiple complex fluids.

Total ion chromatograms (TICs) are included in the Attachments. The eight-digit serial number of each sampler is incorporated in the TIC identification (e.g., 12345678.D represents AGI Universal Sampler 12345678).

General Comments

Soil Gas Sampling

For soil gas sampling, the AGI Environmental Survey reports mass levels migrating through the open pore spaces of the soil and diffusing through the sampler membrane for sorption by the engineered, hydrophobic adsorbents, housed within the membrane tube. During the migration of the soil gas away from the source to the AGI Universal Sampler, the vapors are subject to a variety of attenuation factors. The soil gas masses reported on the samplers compare favorably with the concentrations reported in the soil or groundwater (e.g., where soil gas levels are reported at greater levels to other sampled locations on the site, the matrix data should reveal the same pattern, and vice versa). However, due to a variety of factors, a perfect comparison between matrix data and soil gas levels can rarely be achieved.

Soil gas concentrations (µg/m3) are calculated following the method described in the Additional Report Information section.

Soil gas signals reported by this method cannot be correlated specifically to soil adsorbed, groundwater, and /or free-phase contamination. The soil gas signal reported from each AGI Universal Sampler can evolve from all of these sources. Differentiation between soil and groundwater contamination can only be achieved with prior knowledge of the site history (i.e., the site is known to have groundwater contamination only).

Air Sampling

For indoor, outdoor, and crawlspace air sampling, the AGI Environmental Survey reports mass levels present in the air and diffusing through the sampler membrane for sorption by the engineered adsorbents housed within the membrane tube.

Air concentrations (µg/m3) are calculated following the method described in the Additional Report Information section.

Groundwater and Sediment Porewater Sampling

For groundwater and sediment porewater sampling, the AGI Environmental Survey reports the mass levels of compounds present in the water which, when coming in contact with the sampler membrane, partitions out of solution, and diffuses through the sampler membrane for sorption by the engineered adsorbents.

Water concentrations (µg/L) are calculated using the quantified mass, exposure period and the compound specific uptake rate. The rates were measured under controlled experimental conditions. The uptake rates are corrected for water pressure (depth of the AGI Universal Sampler below the water table), water temperature and the aquifer flow rate. For sediment porewater, the uptake rate is corrected for the reduced volume of water in the sediment, by multiplying the uptake rate by the pore water fraction.

LABORATORY SAMPLE REPORT

Project: ENV 01509 **Site Name: Comal & San Marcos Rivers** **Module Type: SPG0008**

Module ID	Sample Type	Field ID
00770685	FIELD_SAMPLE	HCS410
00770686	FIELD_SAMPLE	HCS420
00770687	FIELD_SAMPLE	HCS430
00770688	FIELD_SAMPLE	HCS440
00770689	FIELD_SAMPLE	FDHCS440
00770690	FIELD_SAMPLE	HCS460
00770691	FIELD_SAMPLE	HSM410
00770692	FIELD_SAMPLE	HSM420
00770693	FIELD_SAMPLE	HSM430
00770694	FIELD_SAMPLE	FDHSM430
00770695	FIELD_SAMPLE	HSM440
00770696	FIELD_SAMPLE	HSM450
00770697	FIELD_SAMPLE	HSM460
00770698	FIELD_SAMPLE	HSM470
00770699	TRIP_BLANK	TB13

Total # "FIELD SAMPLES"	Total # "TRIP BLANKS"	Total # "UNUSED"	Total # "LOST"
14	1	0	0

Duplicate samples: 0

AMPLIFIED GEOCHEMICAL IMAGING, LLC

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Newark, DE 19702-3335 USA
ph: +1-302-266-2428
www.agisurveys.net

AGI Universal Passive Sampler Chain of Groundwater Sampling

Production Order #: 01509

Customer Name: SWCA Environmental Consultants
Address: 6200 UTSA Boulevard
Suite 102

San Antonio, TX 78249
USA

Site Name: Comal & San Marcos Rivers oct
Site Address:

Project Manager:

Serial # of Samplers Shipped
00770685 - 00770699

# of Samplers for Installation	14.00	# of Trip Blanks	1
Total Samplers Shipped	15.00	Pieces	
Total Samplers Received	15	Pieces	
Total Samplers Installed	15	Pieces	

Serial # of Trip Blanks (Client Decides)

00770699		

Prepared By:

Verified By: Marlene Gellowdy

Is Concurrent water sampling planned this monitoring period? YES (NO)

Scheduled Sampling Date:

Installation Performed By:
Name: Jennifer Moreland Brittany Rios
Company: SWCA

Installation Start Date / Time: 10/6/15 1156
Installation Complete Date / Time 10/6/15 1512

Retrieval Performed By:
Name: Jennifer Moreland Guy Rubio
Company: SWCA

Retrieval Start Date / Time: 10/20/15 ~~1303~~ 10:16 am
Retrieval Complete Date / Time 10/20/15 1303

Total Samplers Retrieved: 14
Total Samplers Lost In Field: 0
Total Unused Samplers Returned: 0

Relinquished By	Date/Time 9-29-15	**Received By:**	Date/Time 10/1/15
Company: AGI	1:30pm	**Company:** SWCA	15:08
Relinquished By	Date/Time 10/20/15	**Received By:** Marlene Gellowdy	Date/Time 10/21/15
Company: SWCA	17:00	**Company:** AGL	10:45 AM

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 Executive Drive, Suite 1
Newark, DE USA 19702-3335
ph: 302-266-2428

AGI Project No. ENV 01509
Site Name: Comal & San Marcos Rivers oct
Site Location:

AGI Soil Gas Sampling
Installation & Retrieval Log

Company Name: SWCA Environmental Consultants
Location:
Samples collected by: Jennifer Moreland, Brittany Rios, Guy Rubio

*** Optional or as needed**

					WATER QUALITY M		
SAMPLER SERIAL NO.	**WELL ID**	**SAMPLE TYPE (Field Sample, Trip Blank, Field Blank, etc.)**	**INSTALLATION DATE & TIME MM/DD/YYYY HH:MM (24 Hour) ex. 12/30/2000 13:00**	**RETRIEVAL DATE & TIME MM/DD/YYYY HH:MM (24 Hour) ex. 12/30/2000 15:00**	**INSTALLATION DEPTH FROM TOP OF CASING (feet)**	**DEPTH TO WATER FROM TOP OF CASING (feet)**	**SCREENED INTERVAL FROM TOP OF CASING (feet)**
00770685	HCS410	FIELD_SAMPLE	10/6/15 12:19	10/20/15 10:32	3.25		
00770686	HCS420	FIELD_SAMPLE	10/6/15 12:37	10/20/15 10:42	1.1		
00770687	HCS430	FIELD_SAMPLE	10/6/15 11:56	10/20/15 10:16	2.1		
00770688	HCS440	FIELD_SAMPLE	10/6/15 12:47	10/20/15 10:54	1.9		
00770689	FDHCS440	FIELD_SAMPLE	10/6/15 12:47	10/20/15 10:54	1.9		
00770690	HCS460	FIELD_SAMPLE	10/6/15 13:03	10/20/15 11:03	2.65		
00770691	HSM410	FIELD_SAMPLE	10/6/15 13:45	10/20/15 11:54	1.5		
00770692	HSM420	FIELD_SAMPLE	10/6/15 13:59	10/20/15 12:04	2.9		
00770693	HSM430	FIELD_SAMPLE	10/6/15 14:13	10/20/15 12:10	0.55		
00770694	FDHSM430	FIELD_SAMPLE	10/6/15 14:13	10/20/15 12:10	0.55		
00770695	HSM440	FIELD_SAMPLE	10/6/15 14:28	10/20/15 12:22	5		
00770696	HSM450	FIELD_SAMPLE	10/6/15 14:44	10/20/15 12:38	2.1		
00770697	HSM460	FIELD_SAMPLE	10/6/15 14:55	10/20/15 12:53	0.8		
00770698	HSM470	FIELD_SAMPLE	10/6/15 15:12	10/20/15 13:03	1.8		
00770699	TB13	TRIP_BLANK	10/6/15 12:19	10/20/15 13:03	NA		

AGI Soil Gas Sampling
Installation & Retrieval L

*** Optional or as needed**

	MONITORING			YES / NO	
SAMPLER SERIAL NO.	**WATER TEMPERATURE AT MODULE DEPTH (deg C)**	**FLOW RATE THROUGH SCREEN: HIGH OR LOW (HIGH = flow > than 10 m/day; LOW = flow < 10 m/day)**	**OBSERVATIONS/COMMENTS* (e.g., observations, location description, missing, pulled from well, etc. - as needed)**	**EVIDENCE OF LIQUID PETROLEUM HYDROCARBONS?**	**ODOR ?**
00770685	23.5				
00770686	23.5				
00770687	23.5				
00770688	23.5				
00770689	23.5				
00770690	23.5				
00770691	22				
00770692	22				
00770693	22				
00770694	22				
00770695	22				
00770696	22				
00770697	22				
00770698	22				
00770699					

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770685 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS410
Installation Date: 10/6/2015 12:19:00PM
Retrieval Date: 10/20/2015 10:32:00AM Date Analyzed: 10/27/2015 6:55:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151026-1**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	**67-66-3**	**0.02**	**0.02**
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.07**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770685 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS410
Installation Date: 10/6/2015 12:19:00PM
Retrieval Date: 10/20/2015 10:32:00AM Date Analyzed: 10/27/2015 6:55:00PM
Analyst: Jasmine Smith **Method:** SPG-WI-0292 **Batch:** ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770686 FIELD_SAMPLE
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: HCS420
Installation Date: 10/6/2015 12:37:00PM
Retrieval Date: 10/20/2015 10:42:00AM
Date Analyzed: 10/27/2015 5:25:00PM
Analyst: Jasmine Smith
Method: SPG-WI-0292
Batch: ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.21**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770686 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS420
Installation Date: 10/6/2015 12:37:00PM
Retrieval Date: 10/20/2015 10:42:00AM Date Analyzed: 10/27/2015 5:25:00PM
Analyst: Jasmine Smith **Method:** SPG-WI-0292 **Batch:** ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770687 FIELD_SAMPLE
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: HCS430
Installation Date: 10/6/2015 11:56:00AM
Retrieval Date: 10/20/2015 10:16:00AM
Date Analyzed: 10/27/2015 8:56:00PM
Analyst: Jasmine Smith
Method: SPG-WI-0292
Batch: ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.55**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770687 FIELD_SAMPLE
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: HCS430
Installation Date: 10/6/2015 11:56:00AM
Retrieval Date: 10/20/2015 10:16:00AM
Date Analyzed: 10/27/2015 8:56:00PM
Analyst: Jasmine Smith
Method: SPG-WI-0292
Batch: ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770688 FIELD_SAMPLE
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: HCS440
Installation Date: 10/6/2015 12:47:00PM
Retrieval Date: 10/20/2015 10:54:00AM
Date Analyzed: 10/27/2015 2:54:00PM
Analyst: Jasmine Smith
Method: SPG-WI-0292
Batch: ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.47**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770688 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS440
Installation Date: 10/6/2015 12:47:00PM
Retrieval Date: 10/20/2015 10:54:00AM Date Analyzed: 10/27/2015 2:54:00PM
Analyst: Jasmine Smith **Method:** SPG-WI-0292 **Batch:** ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770689 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHCS440
Installation Date: 10/6/2015 12:47:00PM
Retrieval Date: 10/20/2015 10:54:00AM Date Analyzed: 10/27/2015 3:24:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151026-1**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.46**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770689 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHCS440
Installation Date: 10/6/2015 12:47:00PM
Retrieval Date: 10/20/2015 10:54:00AM Date Analyzed: 10/27/2015 3:24:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151026-1**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770690 FIELD_SAMPLE
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: HCS460
Installation Date: 10/6/2015 1:03:00PM
Retrieval Date: 10/20/2015 11:03:00AM
Date Analyzed: 10/27/2015 6:25:00PM
Analyst: Jasmine Smith
Method: SPG-WI-0292
Batch: ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.30**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770690 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS460
Installation Date: 10/6/2015 1:03:00PM
Retrieval Date: 10/20/2015 11:03:00AM Date Analyzed: 10/27/2015 6:25:00PM
Analyst: Jasmine Smith **Method:** SPG-WI-0292 **Batch:** ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770691 FIELD_SAMPLE
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: HSM410
Installation Date: 10/6/2015 1:45:00PM
Retrieval Date: 10/20/2015 11:54:00AM
Date Analyzed: 10/27/2015 4:55:00PM
Analyst: Jasmine Smith
Method: SPG-WI-0292
Batch: ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	127-18-4	<0.02	0.02
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770691 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM410
Installation Date: 10/6/2015 1:45:00PM
Retrieval Date: 10/20/2015 11:54:00AM Date Analyzed: 10/27/2015 4:55:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151026-1**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770692 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM420
Installation Date: 10/6/2015 1:59:00PM
Retrieval Date: 10/20/2015 12:04:00PM Date Analyzed: 10/27/2015 8:26:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151026-1**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.08**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770692 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM420
Installation Date: 10/6/2015 1:59:00PM
Retrieval Date: 10/20/2015 12:04:00PM Date Analyzed: 10/27/2015 8:26:00PM
Analyst: Jasmine Smith **Method:** SPG-WI-0292 **Batch:** ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770693 FIELD_SAMPLE
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: HSM430
Installation Date: 10/6/2015 2:13:00PM
Retrieval Date: 10/20/2015 12:10:00PM
Date Analyzed: 10/27/2015 2:23:00PM
Analyst: Jasmine Smith
Method: SPG-WI-0292
Batch: ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.94**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770693 FIELD_SAMPLE
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: HSM430
Installation Date: 10/6/2015 2:13:00PM
Retrieval Date: 10/20/2015 12:10:00PM
Date Analyzed: 10/27/2015 2:23:00PM
Analyst: Jasmine Smith
Method: SPG-WI-0292
Batch: ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770694 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHSM430
Installation Date: 10/6/2015 2:13:00PM
Retrieval Date: 10/20/2015 12:10:00PM Date Analyzed: 10/27/2015 9:26:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151026-1**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**1.01**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770694 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHSM430
Installation Date: 10/6/2015 2:13:00PM
Retrieval Date: 10/20/2015 12:10:00PM Date Analyzed: 10/27/2015 9:26:00PM
Analyst: Jasmine Smith **Method:** SPG-WI-0292 **Batch:** ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770695 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM440
Installation Date: 10/6/2015 2:28:00PM
Retrieval Date: 10/20/2015 12:22:00PM Date Analyzed: 10/27/2015 5:55:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151026-1**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.11**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770695 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM440
Installation Date: 10/6/2015 2:28:00PM
Retrieval Date: 10/20/2015 12:22:00PM Date Analyzed: 10/27/2015 5:55:00PM
Analyst: Jasmine Smith **Method:** SPG-WI-0292 **Batch:** ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770696 FIELD_SAMPLE
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: HSM450
Installation Date: 10/6/2015 2:44:00PM
Retrieval Date: 10/20/2015 12:38:00PM
Date Analyzed: 10/27/2015 3:54:00PM
Analyst: Jasmine Smith
Method: SPG-WI-0292
Batch: ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.04**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770696 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM450
Installation Date: 10/6/2015 2:44:00PM
Retrieval Date: 10/20/2015 12:38:00PM Date Analyzed: 10/27/2015 3:54:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151026-1**
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770697 FIELD_SAMPLE
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: HSM460
Installation Date: 10/6/2015 2:55:00PM
Retrieval Date: 10/20/2015 12:53:00PM
Date Analyzed: 10/27/2015 10:26:00PM
Analyst: Jasmine Smith
Method: SPG-WI-0292
Batch: ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.08**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770697 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM460
Installation Date: 10/6/2015 2:55:00PM
Retrieval Date: 10/20/2015 12:53:00PM Date Analyzed: 10/27/2015 10:26:00PM
Analyst: Jasmine Smith **Method:** SPG-WI-0292 **Batch:** ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 Executive Drive, Suite 1
Newark, DE 19702-3335 USA
ph: +1-302-266-2428
www.agisurveys.net

PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770698 FIELD_SAMPLE
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: HSM470
Installation Date: 10/6/2015 3:12:00PM
Retrieval Date: 10/20/2015 1:03:00PM
Date Analyzed: 10/27/2015 9:56:00PM
Analyst: Jasmine Smith
Method: SPG-WI-0292
Batch: ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.09**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	**0.05**	**0.05**
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770698 FIELD_SAMPLE
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: HSM470
Installation Date: 10/6/2015 3:12:00PM
Retrieval Date: 10/20/2015 1:03:00PM
Date Analyzed: 10/27/2015 9:56:00PM
Analyst: Jasmine Smith
Method: SPG-WI-0292
Batch: ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770699 TRIP_BLANK
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: TB13
Installation Date: 10/6/2015 12:19:00PM
Retrieval Date: 10/20/2015 1:03:00PM
Date Analyzed: 10/27/2015 4:25:00PM
Analyst: Jasmine Smith
Method: SPG-WI-0292
Batch: ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	127-18-4	<0.02	0.02
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01509
SITE NAME: Comal & San Marcos Rivers
SITE ADDRESS: October Sampling

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770699 TRIP_BLANK
Matrix: WATER
Product: SPG0008
Dilution Factor: 1
Field ID: TB13
Installation Date: 10/6/2015 12:19:00PM
Retrieval Date: 10/20/2015 1:03:00PM
Date Analyzed: 10/27/2015 4:25:00PM
Analyst: Jasmine Smith
Method: SPG-WI-0292
Batch: ENV-151026-1
Reviewer: Ian McMullen

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

AMPLIFIED GEOCHEMICAL IMAGING ANALYTICAL RESULTS
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE
SWCA, SAN ANTONIO, TX
AGI STANDARD TARGET COMPOUNDS
ESTIMATED WATER CONCENTRATIONS
COMAL AND SAN MARCOS RIVERS OCT 2015
ORDER #01509

											estimated	
DATAFILE	FIELD	DATE/ TIME		DATE/ TIME		DATE/ TIME		DATE/ TIME				
NAME	ID	INSTALLED		RETRIEVED		RECEIVED		ANALYZED		DF	TPH, ug/L	MTBE, ug/L
Average RL=											0.054	0.013
00770685	HCS410	10/6/2015	CDT	10/20/2015	CDT	10/21/2015	EST	10/27/2015	EST	1	<0.053	<0.013
00770686	HCS420	10/6/2015	CDT	10/20/2015	CDT	10/21/2015	EST	10/27/2015	EST	1	<0.053	<0.013
00770687	HCS430	10/6/2015	CDT	10/20/2015	CDT	10/21/2015	EST	10/27/2015	EST	1	<0.053	<0.013
00770688	HCS440	10/6/2015	CDT	10/20/2015	CDT	10/21/2015	EST	10/27/2015	EST	1	<0.053	<0.013
00770689	FDHCS440	10/6/2015	CDT	10/20/2015	CDT	10/21/2015	EST	10/27/2015	EST	1	<0.053	<0.013
00770690	HCS460	10/6/2015	CDT	10/20/2015	CDT	10/21/2015	EST	10/27/2015	EST	1	<0.053	<0.013
00770691	HSM410	10/6/2015	CDT	10/20/2015	CDT	10/21/2015	EST	10/27/2015	EST	1	<0.055	<0.013
00770692	HSM420	10/6/2015	CDT	10/20/2015	CDT	10/21/2015	EST	10/27/2015	EST	1	<0.055	<0.013
00770693	HSM430	10/6/2015	CDT	10/20/2015	CDT	10/21/2015	EST	10/27/2015	EST	1	<0.055	<0.013
00770694	FDHSM430	10/6/2015	CDT	10/20/2015	CDT	10/21/2015	EST	10/27/2015	EST	1	<0.055	<0.013
00770695	HSM440	10/6/2015	CDT	10/20/2015	CDT	10/21/2015	EST	10/27/2015	EST	1	<0.055	<0.013
00770696	HSM450	10/6/2015	CDT	10/20/2015	CDT	10/21/2015	EST	10/27/2015	EST	1	<0.055	<0.013
00770697	HSM460	10/6/2015	CDT	10/20/2015	CDT	10/21/2015	EST	10/27/2015	EST	1	<0.055	<0.013
00770698	HSM470	10/6/2015	CDT	10/20/2015	CDT	10/21/2015	EST	10/27/2015	EST	1	<0.055	<0.013
00770699	TB13	10/6/2015	CDT	10/20/2015	CDT	10/21/2015	EST	10/27/2015	EST	1	<0.054	<0.013
BLK_ENV-273757		10/6/2015	CDT	10/20/2015	CDT	10/21/2015	EST	10/27/2015	EST	1	<0.054	<0.013

AMPLIFIED GEOCHEMICAL IMAGING ANALYTICAL RESULTS
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE
SWCA, SAN ANTONIO, TX
AGI STANDARD TARGET COMPOUNDS
ESTIMATED WATER CONCENTRATIONS
COMAL AND SAN MARCOS RIVERS OCT 2015
ORDER #01509

DATAFILE									
NAME	t12DCE, ug/L	11DCA, ug/L	c12DCE, ug/L	CHCl3, ug/L	111TCA, ug/L	12DCA, ug/L	BENZ, ug/L	CCl4, ug/L	TCE, ug/L
Average RL=	0.008	0.007	0.007	0.007	0.005	0.008	0.006	0.005	0.006
00770685	<0.007	<0.007	<0.007	0.008	<0.005	<0.008	<0.006	<0.004	<0.006
00770686	<0.007	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.004	<0.006
00770687	<0.007	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.004	<0.006
00770688	<0.007	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.004	<0.006
00770689	<0.007	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.004	<0.006
00770690	<0.007	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.004	<0.006
00770691	<0.008	<0.007	<0.007	<0.008	<0.005	<0.008	<0.006	<0.005	<0.006
00770692	<0.008	<0.007	<0.007	<0.008	<0.005	<0.008	<0.006	<0.005	<0.006
00770693	<0.008	<0.007	<0.007	<0.008	<0.005	<0.008	<0.006	<0.005	<0.006
00770694	<0.008	<0.007	<0.007	<0.008	<0.005	<0.008	<0.006	<0.005	<0.006
00770695	<0.008	<0.007	<0.007	<0.008	<0.005	<0.008	<0.006	<0.005	<0.006
00770696	<0.008	<0.007	<0.007	<0.008	<0.005	<0.008	<0.006	<0.005	<0.006
00770697	<0.008	<0.007	<0.007	<0.008	<0.005	<0.008	<0.006	<0.005	<0.006
00770698	<0.008	<0.007	<0.007	<0.008	<0.005	<0.008	<0.006	<0.005	<0.006
00770699	<0.008	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.005	<0.006
BLK_ENV-273757	<0.008	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006	<0.005	<0.006

AMPLIFIED GEOCHEMICAL IMAGING ANALYTICAL RESULTS
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE
SWCA, SAN ANTONIO, TX
AGI STANDARD TARGET COMPOUNDS
ESTIMATED WATER CONCENTRATIONS
COMAL AND SAN MARCOS RIVERS OCT 2015
ORDER #01509

DATAFILE									
NAME	112TCA, ug/L	TOL, ug/L	OCT, ug/L	PCE, ug/L	ClBENZ, ug/L	1112TetCA, ug/L	ETBENZ, ug/L	mpXYL, ug/L	oXYL, ug/L
Average RL=	0.010	0.006	0.005	0.005	0.006	0.007	0.005	0.005	0.005
00770685	<0.009	<0.006	<0.004	0.015	<0.006	<0.007	<0.005	<0.005	<0.005
00770686	<0.009	<0.006	<0.004	0.040	<0.006	<0.007	<0.005	<0.005	<0.005
00770687	<0.009	<0.006	<0.004	0.095	<0.006	<0.007	<0.005	<0.005	<0.005
00770688	<0.009	<0.006	<0.004	0.083	<0.006	<0.007	<0.005	<0.005	<0.005
00770689	<0.009	<0.006	<0.004	0.081	<0.006	<0.007	<0.005	<0.005	<0.005
00770690	<0.009	<0.006	<0.004	0.055	<0.006	<0.007	<0.005	<0.005	<0.005
00770691	<0.010	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	<0.005	<0.006
00770692	<0.010	<0.006	<0.005	0.019	<0.006	<0.007	<0.005	<0.005	<0.006
00770693	<0.010	<0.006	<0.005	0.160	<0.006	<0.007	<0.005	<0.005	<0.006
00770694	<0.010	<0.006	<0.005	0.171	<0.006	<0.007	<0.005	<0.005	<0.006
00770695	<0.010	<0.006	<0.005	0.025	<0.006	<0.007	<0.005	<0.005	<0.006
00770696	<0.010	<0.006	<0.005	0.009	<0.006	<0.007	<0.005	<0.005	<0.006
00770697	<0.010	<0.006	<0.005	0.019	<0.006	<0.007	<0.005	<0.005	<0.006
00770698	<0.010	<0.006	<0.005	0.020	<0.006	<0.007	<0.005	<0.005	<0.006
00770699	<0.010	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	<0.005	<0.005
BLK_ENV-273757	<0.010	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	<0.005	<0.005

AMPLIFIED GEOCHEMICAL IMAGING ANALYTICAL RESULTS
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE
SWCA, SAN ANTONIO, TX
AGI STANDARD TARGET COMPOUNDS
ESTIMATED WATER CONCENTRATIONS
COMAL AND SAN MARCOS RIVERS OCT 2015
ORDER #01509

DATAFILE								
NAME	1122TetCA, ug/L	135TMB, ug/L	124TMB, ug/L	13DCB, ug/L	14DCB, ug/L	12DCB, ug/L	UNDEC, ug/L	NAPH, ug/L
Average RL=	0.011	0.005	0.005	0.006	0.006	0.006	0.020	0.016
00770685	<0.010	<0.005	<0.005	<0.006	<0.006	<0.006	<0.020	<0.016
00770686	<0.010	<0.005	<0.005	<0.006	<0.006	<0.006	<0.020	<0.016
00770687	<0.010	<0.005	<0.005	<0.006	<0.006	<0.006	<0.020	<0.016
00770688	<0.010	<0.005	<0.005	<0.006	<0.006	<0.006	<0.020	<0.016
00770689	<0.010	<0.005	<0.005	<0.006	<0.006	<0.006	<0.020	<0.016
00770690	<0.010	<0.005	<0.005	<0.006	<0.006	<0.006	<0.020	<0.016
00770691	<0.011	<0.005	<0.005	<0.006	<0.006	<0.006	<0.021	<0.017
00770692	<0.011	<0.005	<0.005	<0.006	<0.006	<0.006	<0.021	<0.017
00770693	<0.011	<0.005	<0.005	<0.006	<0.006	<0.006	<0.021	<0.017
00770694	<0.011	<0.005	<0.005	<0.006	<0.006	<0.006	<0.021	<0.017
00770695	<0.011	<0.005	<0.005	<0.006	<0.006	<0.006	<0.021	<0.017
00770696	<0.011	<0.005	<0.005	<0.006	<0.006	<0.006	<0.021	<0.017
00770697	<0.011	<0.005	<0.005	<0.006	<0.006	<0.006	<0.021	<0.017
00770698	<0.011	<0.005	<0.005	<0.006	<0.006	<0.006	<0.021	0.017
00770699	<0.011	<0.005	<0.005	<0.006	<0.006	<0.006	<0.020	<0.016
BLK_ENV-273757	<0.011	<0.005	<0.005	<0.006	<0.006	<0.006	<0.020	<0.016

AMPLIFIED GEOCHEMICAL IMAGING ANALYTICAL RESULTS
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE
SWCA, SAN ANTONIO, TX
AGI STANDARD TARGET COMPOUNDS
ESTIMATED WATER CONCENTRATIONS
COMAL AND SAN MARCOS RIVERS OCT 2015
ORDER #01509

	estimated		estimated	estimated	estimated	estimated
DATAFILE						
NAME	TRIDEC, ug/L	2MeNAPH, ug/L	Acenaphthylene, ug/L	PENTADEC, ug/L	Acenaphthene, ug/L	Fluorene, ug/L
Average RL=	0.020	0.014	0.014	0.020	0.014	0.014
00770685	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00770686	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00770687	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00770688	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00770689	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00770690	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00770691	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015
00770692	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015
00770693	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015
00770694	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015
00770695	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015
00770696	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015
00770697	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015
00770698	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015
00770699	<0.020	<0.014	<0.014	<0.020	<0.014	<0.014
BLK_ENV-273757	<0.020	<0.014	<0.014	<0.020	<0.014	<0.014

KEY TO DATA TABLE

UNITS

µg	micrograms, relative mass value
µg/m^3	micrograms per cubic meter; estimated soil gas concentration
µg/L	micrograms per Liter; calculated water concentration

DATA QUALIFIERS

>	greater than; value exceeds calibration range, estimated value
<	less than; compound value is below the LOD and RL
J	mass value below LOQ or RL, but above LOD, estimated mass value
E	mass value exceeds upper calibration level, estimated mass value
Q	one or more quality control parameters failed for the compound

ABBREVIATIONS

AVG RL	average reporting limit; calculated based on individual field sample RLs
LOD	limit of detection
LOQ	limit of quantification
MDL	method detection limit
RL	reporting limit

1112TetCA	1,1,1,2-tetrachloroethane
111TCA	1,1,1-trichloroethane
1122TetCA	1,1,2,2-tetrachloroethane
112TCA	1,1,2-trichloroethane
11DCA	1,1-dichloroethane
11DCE	1,1-dichloroethene
124TMB	1,2,4-trimethylbenzene
12DCA	1,2-dichloroethane
12DCB	1,2-dichlorobenzene
135TMB	1,3,5-trimethylbenzene
13DCB	1,3-dichlorobenzene
14DCB	1,4-dichlorobenzene
2MeNAPH	2-methyl naphthalene
BENZ	benzene
BTEX	combined masses of benzene, toluene, ethylbenzene, and total xylenes (Gasoline Range Aromatics)
C11,C13&C15	combined masses of undecane, tridecane, and pentadecane (C11+C13+C15) (Diesel Range Alkanes)
c12DCE	cis-1,2-dichloroethene
CCl4	carbon tetrachloride
CHC13	chloroform
ClBENZ	chlorobenzene
ct12DCE	cis- & trans-1,2-dichloroethene
EtBENZ	ethylbenzene
mpXYL	m-, p-xylene
MTBE	methyl t-butyl ether
NAPH	naphthalene
OCT	octane
oXYL	o-xylene
PCE	tetrachloroethene
PENTADEC	pentadecane
PHEN	phenanthrene
t12DCE	trans-1,2-dichloroethene
TCE	trichloroethene
TMBs	combined masses of 1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene
TOL	toluene
TPH	total petroleum hydrocarbons
TRIDEC	tridecane
UNDEC	undecane
VC	vinyl chloride

SUMMARY OF SAMPLING RATE CALIBRATION FOR AGI UNIVERSAL SAMPLER IN AQUEOUS PHASES

INTRODUCTION:

The Amplified Geochemical Imaging, LLC (AGI) passive vapor sampler is designed to be used for soil gas, water, sediment pore water, and air sampling. This document describes the process used to calibrate the sampler's compound specific sampling or uptake rates in aqueous phases.

Sampling rates are measured following AGI's "Standard Practice for Determining the Sampling Rate of Passive Diffusion Samplers in Various Environmental Media": SPG-SOP-0493. Rates are used to calculate dissolved phase concentrations of volatile and semi-volatile contaminants in water. The calibration process is summarized in three parts: Part 1: shallow water, Part 2: deep water, and Part 3: sediment.

PURPOSE:

The purpose of this document is to:

1. Summarize the test protocol,
2. Summarize the methodology for analysis of data,
3. Present general results for generating concentration calibration of the AGI Universal Sampler

Principle of Operation of the AGI Samper

The AGI Universal Sampler is designed with solid adsorbents enclosed inside a tubular microporous PTFE membrane. When placed in water, the pores and hydrophobic nature of the PTFE keep liquid water from entering the membrane until a water head of about 34 feet is reached. The membrane will not keep water vapor from entering but the adsorbents are very hydrophobic and through testing validated to be unaffected by this moisture vapor. In shallow water, <34', volatile and semi-volatile compounds will partition from the dissolved water into the air phase in the PTFE membrane according to Henry's Law. This partitioning is instantaneous and within seconds-minutes, the compound is adsorbed by the adsorbent inside the sealed tube. Because the diffusivity in air is about 10,000 times higher than the diffusivity in water, the sampling rate is controlled by the water contact area of the membrane that allows the Henry's Law effect to occur. This contact area is set by the membrane diameter and length of the sealed tube, which is fixed in AGI's manufacturing process.

Henry's law as well as diffusivity, which are fundamentally incorporated into the sampling rate, are affected by temperature, T, and follow an Arrhenius equation H_T = Hr x exp([-Ea/R](1/Tr - 1/T)). Because a 5°C temperature change can make a 15% change in sampling rate, the temperature of the sampled water should be known to get the most precise concentration.

The membrane pore size is also small enough that colloidal particles and microbes cannot pass through the membrane. This keeps the adsorbent from getting contaminated and eliminates any need to add preservative or chilling during storage or transportation.

When the water pressure exceeds the water entry pressure of the membrane, about 34 feet of water, the water becomes in contact with the solid adsorbent. Under this condition the compounds in the water will partition from the water into the solid. The partitioning coefficient, K_{AW}, can be approximated by the octanol-water coefficient, K_{OW}, but has been measured more precisely in the lab for AGI's specific solid adsorbent. The sampling rate is the product of the sampling rate at <34' of water and the K_{AW}.

In sediment, the sampler measures pore-water concentration, which is generally agreed to be the preferred measurement as it is more indicative of bioavailability. In sediment the volumetric

availability of water to the sampler is reduced by the volume fraction solids in the sediment, which typically varies from zero to 35%, but can be has high at 73% in well packed and broad particle size distribution sediments. As a result, sampling rates in sediment are multiplied by the fraction pore water in the sediment to determine concentration.

PART 1: Calibration in shallow water

Part 1 summarizes the work in shallow water generating calibration data, evaluating the physical and chemical factors affecting the sampling rate, and measurement of the actual sampling rates or regression calibration equations needed to determine concentrations.

Sample Generation in water

In this calibration work, solutions of analytes at known concentrations were formulated in clean 4 liter smoked glass jugs by injecting microliter measured amounts of environmental standards using a calibrated syringe into pure or deionized water and stirring for a minimum of 2 hours but generally overnight. Headspace in the jugs was minimized and generally less than 1% by volume during the tests. Jugs were temperature controlled by placing them in a water filled cooler, chilled via a cooper tubing loop in the cooler. Temperature was measured with a certified digital temperature gauge and an average value used for each temperature experiment.

AGI samplers were weighted so they won't float and placed in the jugs at time zero. They were removed at various intervals to generate samples along with duplicates that showed mass increasing with exposure time. The sampler exposure time was selected to span minutes to hours and was generally reduced for high concentration tests to maintain uptake with time in roughly the linear dynamic range. Samplers were removed and dried with a paper towel and returned to their original container for analysis. They were analyzed by AGI's 8260C (SPG-WI-318 or SPG-WI-10028) method in duplicate, which is based on EPA SW846 Method 8260C.

Water samples were also taken and measured at an outside accredited lab using EPA SW846 Method 8260B. The concentrations agreed well with the calculated concentrations based on the standard certification, jug volume, and syringe injection. The variability of the outside lab 8260B values were found to be high, so for the sampling rate calculations we used the concentrations based on syringe dosing.

Calibrations were run at five concentrations, nominally at 6, 24, 118, 590, 1420 ug/L and five temperatures nominally at 5, 10, 15, 20, and 25 degrees centigrade. Samples were taken at 4 different exposure times. Samples were run in duplicate. A total of 176 data points were generated using 28 compounds from AGI's standard compounds list. Tridecane and pentadecane were not evaluated due to their very low solubility in water. In addition, another 23 compounds were tested using an 8260 liquid standard at nominal concentrations of 0.5, 1.0, 5.0, 15, 95, and 470 ug/L at a temperature typical of groundwater, 15°C. This is a living calibration and as additional data are generated, they may be qualified and added to this data set to improve the precision of the sampling rate calibration and broaden the compound list.

Key Variable Effects

As expected from theory, at short to moderate exposure times, mass will increase roughly linearly proportional to exposure time, as well as proportional to concentration, and exponentially with temperature following Arrhenius law. Temperature affects the Henry's law as well as diffusivity in water. Sampling rate is generally independent of concentration and time at mass values significantly below saturation. In the following sections we have characterized the sampling rate for each compound as affected by temperature and also developed calibrations using regression which account for the minor impact of time, and mass.

Concentration using Simple Sampling Rate Determination

A simple way to determine concentration is to measure mass on the AGI sampler, divide by exposure time, and divide by sampling rate, SR.

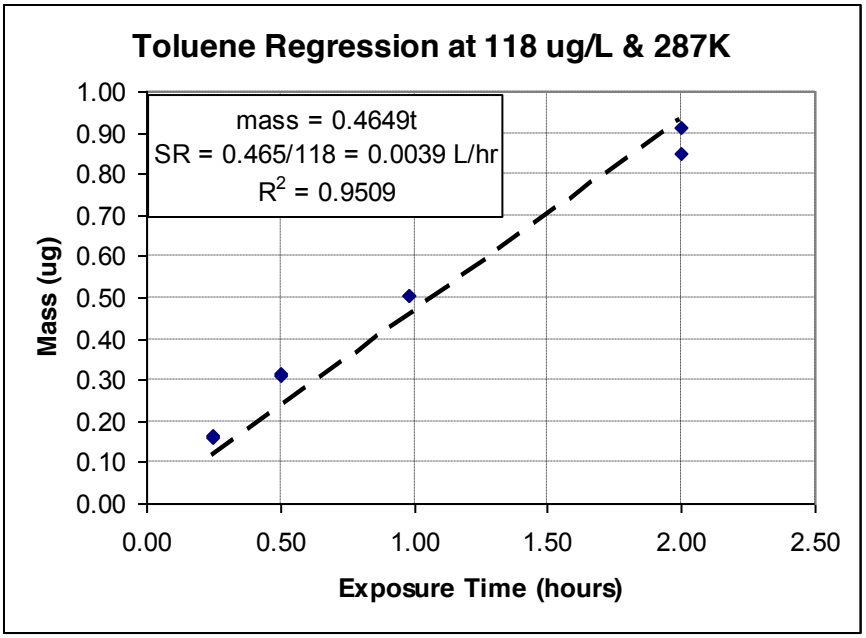
Conc [ug/L] = mass/time/SR (1)

The sampling rate can be determined via measurements of mass versus time at a known concentration and temperature according to the following modification of equation (1).

SR = mass/time/concentration (2)

Sampling rates in L/hr were determined by measuring the trend or regression mass uptake versus time and dividing by the concentration. A measurement like this will use 8 data points (4 times x 2 samples). Such a sampling rate can be measured at any concentration and temperature.

The chart to the right shows a plot of mass versus time for water at 118 ug/L and 287K (actual data from a single run). Slope of 0.465 ug/hr divided by the concentration of 118 ug/L yields a sampling rate, SR, of 0.0039 L/hr.



SR's typically range from about 0.004 to 0.007 L/hr at 15°C. Table A shows SR's measured for our standard compound list at 5 temperatures.

Rigorous Concentration using Regression

A preferred method for determining concentration that will yield improved accuracy over a wide range of concentrations, exposure times, and temperatures is to use all data in a regression analysis, which allows adjustments for the minor non-linear influences of mass and time as well as the effects of temperature. This step is done by regressing equation (1) or a universal version of equation (1):

$$Conc = (mass)^{b} / (time)^{-d} / [-SRo * \exp(-Ea/R/T)] \quad (3)$$

The subtle non-linear effects of mass and time will be evident in the deviation of coefficients b and d from 1.0. This regression generates four constants b, d, SRo, and –Ea/R by regressing ln(conc) versus ln(mass), ln(time), 1/temp. These four constants can be used to determine concentration via the equation:

$$Conc = (mass)^{b} / (time)^{-d} / [-SRo \times \exp(-Ea/R(1/T))] \quad (4)$$

Where conc is in ug/L, mass is in ug, time in hours, T in degrees Kelvin.

Equation (4) an be also expressed at a reference temperature, Tr, such as 15°C by

$$Conc = (mass)^{b} / (time)^{-d} / [-SRr \times \exp(-Ea/R(1/Tr-1/T))] \quad (5)$$

This step allows sampling rates, SRr, at any reference temperature, Tr, and for any analyte to easily be compared. The values of SRr at 293.14K can be found in Table A.

When sampling times are between 0 and 4 hours, using the 4 constant equation (5) is preferred. For concentrations from about 5 to 1500 ug/L one hour exposure times generally give the lowest error, typically with average error of 6-20% and with total error range of 12%-32%. For low concentrations where sampling times are greater than 4 hours, it is preferred to use equation (1) to avoid unrealistic effects from the coefficient d or to set d to 1.0. In such a case SR in equation (1) can be substituted with [SRr x exp(-Ea/R(1/Tr-1/T))] to use an SR representative of the well temperature, T.

The chart to the right is a plot of the calculated concentration from the 4 constant regression compared to the dosed concentration. Agreement is excellent for the 176 data points.

However, there does appear to be a slight high bias of 8.6% over the full range of this data, although it is well within acceptable limits of variability.

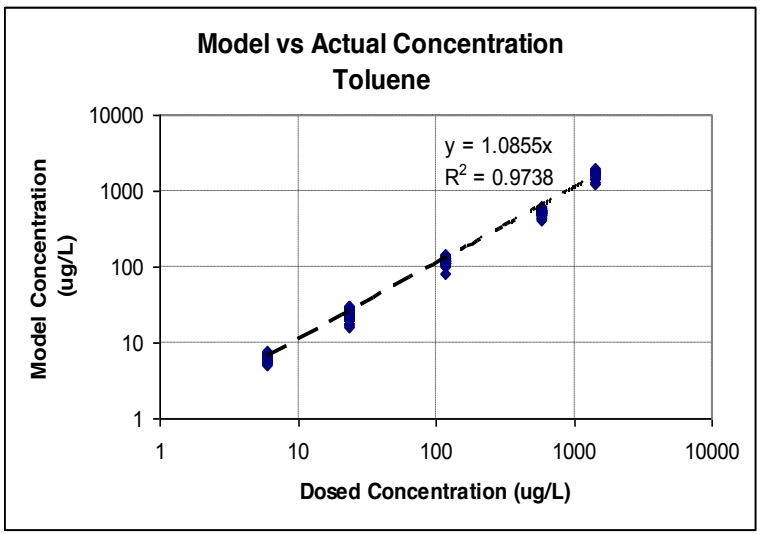


Table B shows the tabulated summary of the 4 constants regression with Rsq values and error estimates for the 4 constants for each analyte. Most regression Rsq values are 0.99 or greater for each analyte. In general, -Ea/R is about 2400+/-400, b is about 0.9, d is about -0.75, and SR(15°C) ranges from .004 L/hr to 0.007 L/hr increasing with MW of the compound.

Error Estimates

The error in the water concentration values will depend on both the error in mass from the analytical method as well as the error in the concentration calibration. Table C shows the error in the mass values from the 8260C low sensitivity method.

The standard error of the regression and standard errors of the constants can be found in table B. For each compound we have measured the error between the derived concentration and the actual concentration. The error tends to be lowest at our recommended exposure time of one hour as shown by the example for Toluene to the right.

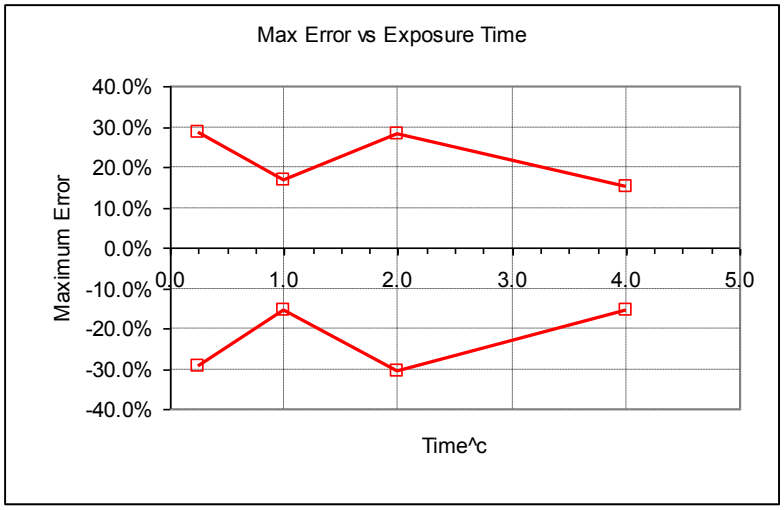
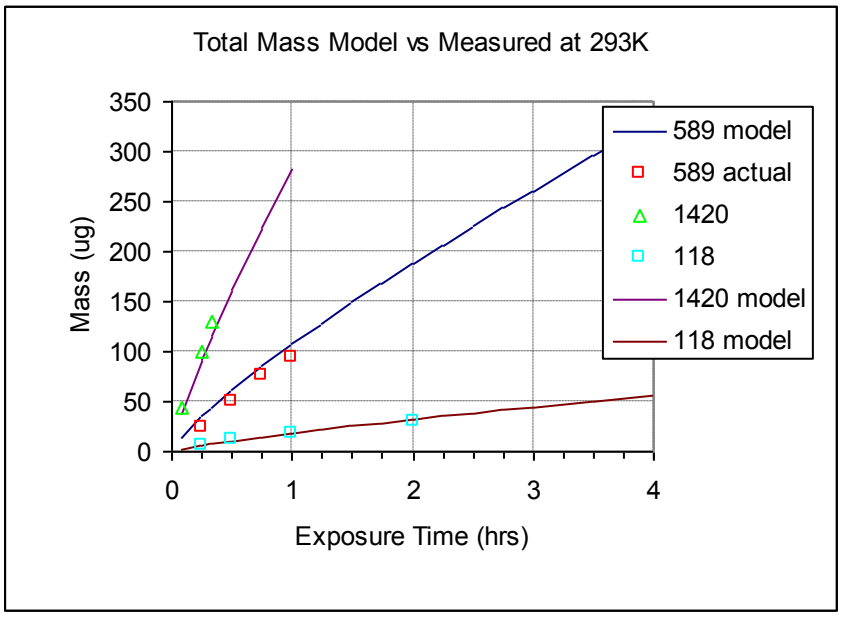


Table D shows the total average error in water concentration by compound as well as the low and high error. The average ranges from about 6% to 20%, which is similar to the analytical method errors. The low and high errors range from 12% to 32% and include contribution from measurement errors in both time and temperature.

Sorbent Saturation

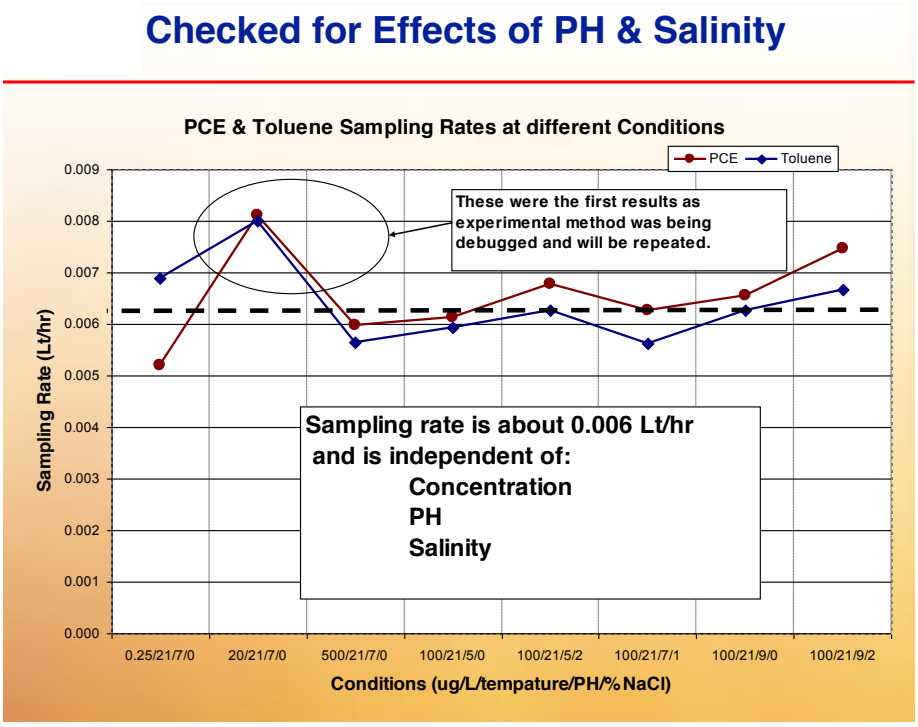
As mass increases on a solid sorbent and approaches saturation, reverse diffusion can occur causing the sampling rate to drop. Eventually the mass level will reach a maximum steady state value at any concentration. A rate of mass uptake with time that deviates significantly from linear, indicates that sorbent saturation could be an issue. When using equation (1), staying in the linear range to avoid the effects of adsorbent saturation is important. We recommend keeping the total mass on the sampler below 50 ug or flagging when this is exceeded.

The 4 constant regression accounts for some of the non linearity allowing good accuracy at higher mass levels. From the experimental data we have found this safe range can be extended to 100 ug or higher as shown in the chart below. This chart compares total mass of all compounds (excluding heavy alkanes, which have solubility issues) versus time in comparison to that predicted from the 4-constant concentration equation.



Effect of PH and Salinity

Because neither PH nor salinity is known to have a significant impact on Henry's law or diffusivity in water, we did not expect them to have a significant impact on sampling rate. To confirm this, experiments were run varying PH from 5 to 9 and NaCl content from 0 to 2%. The chart below shows no significant impact for combinations of PH and NaCl content over this range on the sampling rate of toluene in water at 21°C.

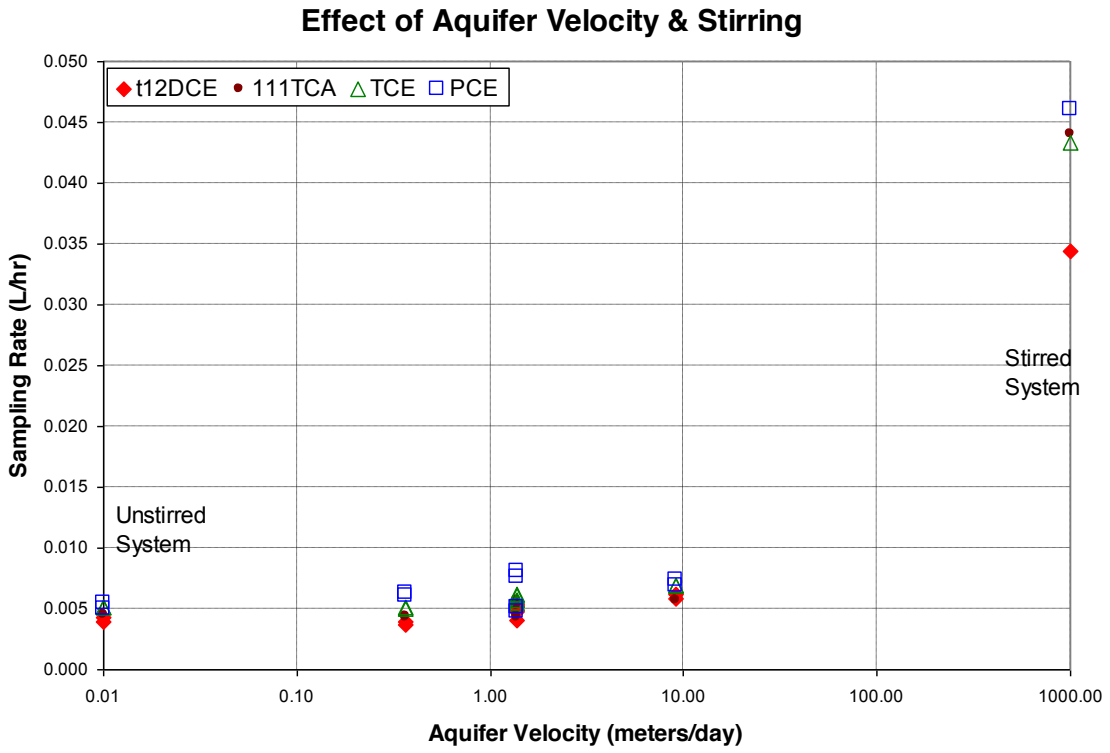


Impact of Aquifer Velocity

The velocity in most aquifers is quite slow, typically a meter/day or less. Occasionally water flow could be much higher such as encountered in karst aquifers, streams or rivers. Mass transfer coefficients are higher in high flow conditions, which will lead to higher sampling rates. We validated that a highly stirred system had sampling rates about 10 times higher than those that were non-stirred. We decided to evaluate the effect of aquifer velocity.

A test apparatus was built comprising a 3" PVC pipe tee filled with clean sand in each of the horizontal straight legs and screened to leave the center open. A test solution was run through this system using a variable flow pump and AGI samplers were placed into the simulated well through the vertical leg of the tee. Tests were run to examine the effect of velocity by varying the pumping rate and hence water velocity.

The chart below shows no significant effect of aquifer velocity up to a speed of about 10 meters/day. At velocities significantly above this, similar to a stirred system, sampling rates are about 10 times higher.

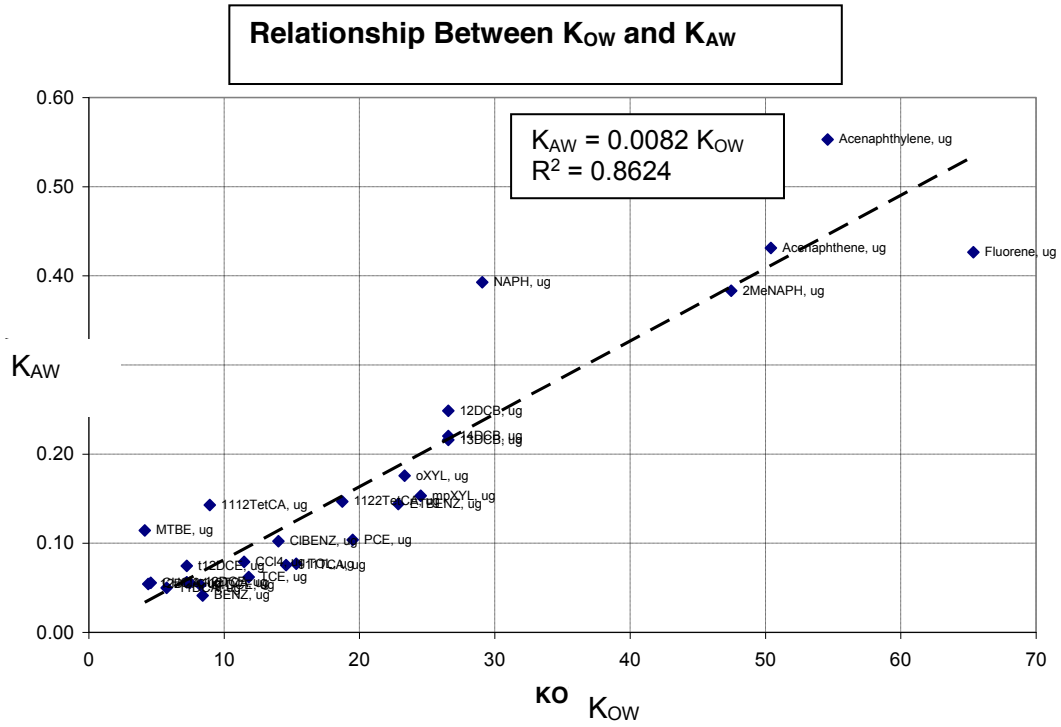


Part 2: Calibration in Deep (>34') water

Part 2 describes the effect of deep water on the AGI sampler and summarizes the effects on sampling rate and concentration measurement.

When the water pressure exceeds the water entry pressure of the membrane, about 34 feet of water, the water becomes in direct contact with the solid adsorbent. Under this condition the compounds in the water will partition from the water into the solid. The portioning coefficient is closely related to the octanol-water coefficient, K_{OW}, but has been measured more precisely in the lab for AGI's specific solid adsorbent, K_{AW}. The sampling rate for deep water is the product of the sampling rate at <34' of water and the K_{AW}.

Measurement of the K_{AW} was done in a one liter stainless steel vessel pressurized with nitrogen to simulate water heads above 34' of water. Pressures of up to 465 psig or 200' of water head were used. The sampling rate change was the same at all pressures above 34' of water. The K_{AW} was determined as the ratio between the mass or sampling rate above 34' of head to the rate at <34' of head and is shown in the chart below.



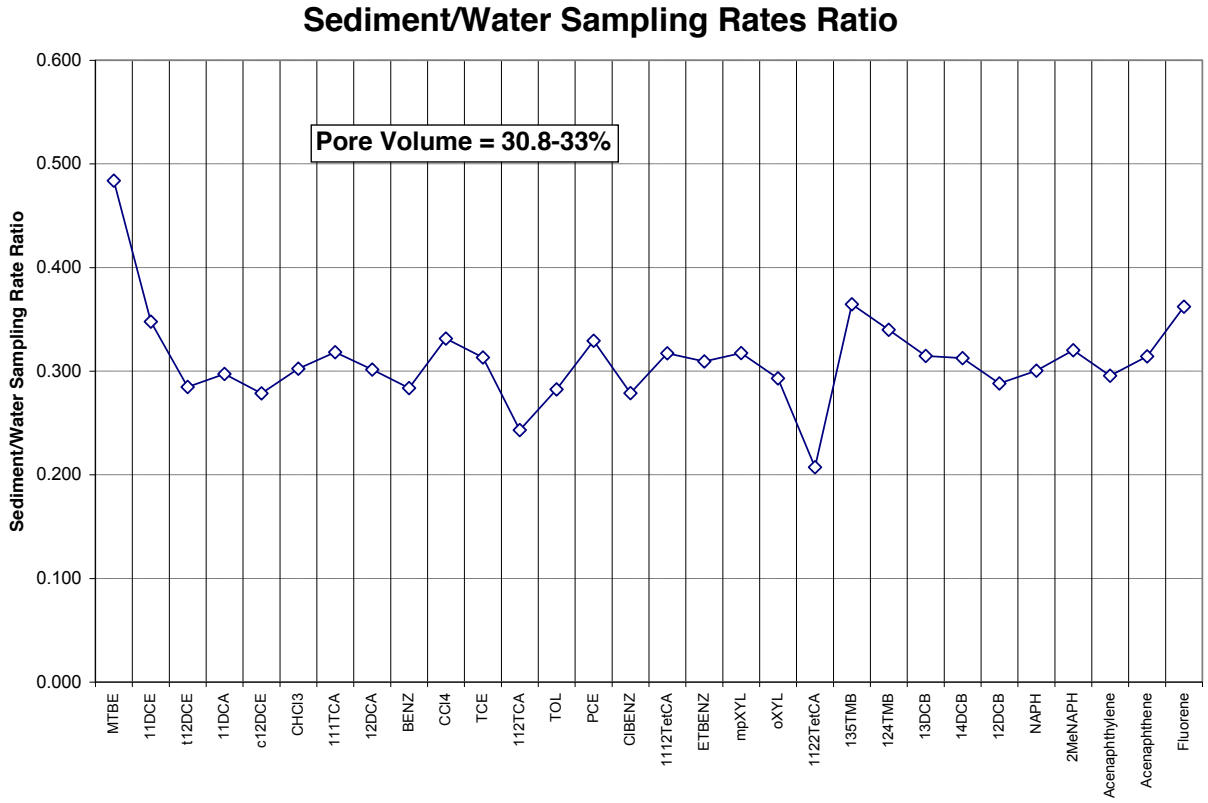
Part 3: Calibration in Sediment

Part 3 describes the effect of sediment solids or sediment pore volume on the sampling rate and concentration measurement.

In sediment, the sampler measures pore water concentration, which is generally agreed to be the preferred measurement as it is more indicative of bioavailability. In sediment the volumetric availability of water to the sampler is reduced by the volume fraction solids in the sediment. As a result sampling rates in sediment are multiplied by the fraction pore water to determine

concentration. Pore water fraction can range from 1.0 for water without sediment to as low as 0.25. Typically most sediments have pore fractions of 0.9 to 0.65.

A sampling rate study was done with water and with water added into a well-packed sorted sand. Pore water fraction in this test was measured between 30.8% and 33% by volume. Below is a plot of the ratio of sampling rates measured in the sediment to open water. The average ratio is equal to the pore water fraction confirming that sampling rate in sediment is on average equal to the product of pore water fraction times the sampling rate in water.



Summary

The AGI Sampler can be used to determine the concentration of volatile and semi-volatile compounds in a water phase. This requires knowing the exposure time and water temperature. It also requires knowing if the sample is above or below 34' of water head and if the water has a velocity above 10 meters/day. Regressions of large amounts of data were used to generate a four constant equation to generate concentration values in water. Potential error in the concentration values is excellent typically less than 25%.

AMPLIFIED GEOCHEMICAL IMAGING LLC

TABLE A

WATER SAMPLING RATES STANDARD LIST

	SRr 293.14	SR @ 277.54	SR @ 282.44	SR @ 287.84	SR @ 293.24	SR @ 298.94
MTBE	0.0025	0.0014	0.0016	0.0018	0.0022	0.0029
t12DCE	0.0043	0.0028	0.0028	0.0027	0.0037	0.0048
11DCA	0.0047	0.0031	0.0033	0.0033	0.0039	0.0052
c12DCE	0.0046	0.0030	0.0031	0.0031	0.0038	0.0051
CHCl3	0.0046	0.0030	0.0031	0.0031	0.0038	0.0051
111TCA	0.0066	0.0043	0.0047	0.0047	0.0056	0.0076
12DCA	0.0045	0.0029	0.0029	0.0030	0.0036	0.0050
BENZ	0.0050	0.0031	0.0034	0.0035	0.0042	0.0056
CCl4	0.0068	0.0044	0.0048	0.0047	0.0058	0.0080
TCE	0.0052	0.0030	0.0034	0.0034	0.0043	0.0058
112TCA	0.0043	0.0027	0.0027	0.0028	0.0034	0.0048
TOL	0.0056	0.0034	0.0039	0.0039	0.0047	0.0062
OCT	0.0064	0.0046	0.0050	0.0040	0.0058	0.0089
PCE	0.0061	0.0036	0.0043	0.0043	0.0051	0.0069
ClBENZ	0.0054	0.0033	0.0039	0.0040	0.0045	0.0059
1112TetCA	0.0061	0.0037	0.0042	0.0044	0.0050	0.0065
EtBENZ	0.0060	0.0037	0.0045	0.0044	0.0052	0.0069
mpXYL	0.0064	0.0039	0.0048	0.0046	0.0055	0.0072
oXYL	0.0066	0.0041	0.0050	0.0048	0.0057	0.0074
1122TetCA	0.0044	0.0027	0.0029	0.0031	0.0036	0.0046
135TMB	0.0079	0.0046	0.0059	0.0056	0.0071	0.0093
124TMB	0.0078	0.0046	0.0060	0.0055	0.0071	0.0092
13DCB	0.0072	0.0041	0.0055	0.0053	0.0063	0.0080
14DCB	0.0071	0.0040	0.0054	0.0052	0.0062	0.0079
12DCB	0.0070	0.0040	0.0053	0.0051	0.0060	0.0076
UNDEC		0.0026	0.0024	0.0020	0.0031	0.0029
NAPH		0.0041	0.0056	0.0054	0.0064	0.0081
TRIDEC						
2MeNAPH		0.0043	0.0066	0.0066	0.0080	0.0108
PENTADEC						
Total mass	0.1177	0.0822	0.1339	0.1334	0.1773	0.1981

Notes:

Values in L/hr

Total mass does not include UNDEC, TRIDEC, PENTADEC (28 compounds)

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TABLE B

4 CONSTANT REGRESSION OUTPUT

	Adjusted Rsq	Standard Error	ln(SR0)	b	-Ea/R	d	Std Error ln(SR0)	Std Error b	Std Error -Ea/R	Std Error d
MTBE	0.997	0.0960	-3.217	0.981	2704	-0.709	0.2881	0.0062	83	0.0082
t12DCE	0.992	0.1659	-1.877	0.905	2147	-0.760	0.4971	0.0100	144	0.0138
11DCA	0.995	0.1272	-1.346	0.916	1965	-0.746	0.3809	0.0077	110	0.0106
c12DCE	0.995	0.1299	-1.905	0.911	2137	-0.751	0.3892	0.0078	112	0.0109
CHCl3	0.996	0.1260	-1.841	0.912	2118	-0.748	0.3776	0.0076	109	0.0105
111TCA	0.995	0.1279	-2.684	0.902	2259	-0.761	0.3836	0.0076	111	0.0106
12DCA	0.995	0.1263	-2.161	0.908	2218	-0.746	0.3786	0.0076	109	0.0106
BENZ	0.995	0.1323	-2.207	0.920	2198	-0.754	0.3965	0.0080	114	0.0110
CCl4	0.994	0.1405	-3.121	0.889	2379	-0.776	0.4220	0.0083	122	0.0116
TCE	0.992	0.1655	-3.338	0.900	2522	-0.772	0.4969	0.0099	144	0.0137
112TCA	0.995	0.1264	-2.412	0.896	2302	-0.724	0.3790	0.0075	109	0.0107
TOL	0.994	0.1426	-2.873	0.916	2364	-0.756	0.4281	0.0087	124	0.0119
OCT	0.938	0.4698	-5.984	0.822	3235	-0.827	1.4231	0.0277	412	0.0388
PCE	0.991	0.1773	-3.780	0.877	2601	-0.775	0.5329	0.0103	154	0.0147
ClBENZ	0.994	0.1457	-2.601	0.911	2292	-0.747	0.4370	0.0088	126	0.0122
1112TetCA	0.996	0.1235	-2.676	0.898	2281	-0.725	0.3705	0.0073	107	0.0104
EtBENZ	0.993	0.1597	-2.930	0.918	2357	-0.752	0.4794	0.0097	138	0.0134
mpXYL	0.992	0.1678	-3.036	0.909	2372	-0.749	0.5037	0.0101	145	0.0140
oXYL	0.993	0.1555	-2.862	0.911	2312	-0.740	0.4667	0.0094	135	0.0131
1122TetCA	0.996	0.1118	-1.971	0.913	2167	-0.691	0.3351	0.0067	97	0.0096
135TMB	0.988	0.2024	-4.435	0.897	2720	-0.738	0.6093	0.0121	176	0.0170
124TMB	0.989	0.1997	-4.126	0.890	2631	-0.731	0.6009	0.0118	173	0.0169
13DCB	0.991	0.1832	-3.422	0.888	2449	-0.730	0.5503	0.0108	159	0.0155
14DCB	0.991	0.1802	-3.263	0.892	2408	-0.724	0.5413	0.0107	156	0.0153
12DCB	0.992	0.1697	-2.970	0.894	2327	-0.716	0.5092	0.0101	147	0.0144
UNDEC	0.694	0.374	-1.406	0.426	1708	-0.806	1.792	0.028	517	0.053
NAPH	0.992	0.166	-3.374	0.915	2430	-0.671	0.497	0.010	144	0.014
TRIDEC										
2MeNAPH	0.984	0.238	-5.498	0.869	2990	-0.689	0.72	0.014	208	0.021
PENTADEC										
Total mass	0.993	0.1543	-6.111	0.907	2419	-0.732	0.4666	0.0093	134	0.0130

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TABLE C

8260C MASS UNCERTAINTY

AGI 8260C Method for Mass using SPG-0008 Samplers

	99% Uncertainty Range +/-	95% Uncertainty Range +/-
MTBE	20%	14%
t12DCE	22%	15%
11DCA	18%	12%
c12DCE	18%	12%
CHCl3	16%	11%
111TCA	18%	12%
12DCA	20%	13%
BENZ	16%	10%
CCl4	19%	12%
TCE	15%	10%
112TCA	18%	12%
TOL	15%	10%
OCT	20%	13%
PCE	16%	11%
ClBENZ	18%	12%
1112TetCA	19%	13%
EtBENZ	18%	12%
mpXYL	18%	12%
oXYL	18%	12%
1122TetCA	23%	15%
135TMB	21%	14%
124TMB	20%	14%
13DCB	19%	13%
14DCB	19%	13%
12DCB	20%	14%
NAPH	21%	14%
2MeNAPH	25%	17%

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TABLE D

4 CONSTANT WATER CONCENTRATION UNCERTAINTY

ERROR IN CONCENTRATION REPORTING (1)

	Average Error	Minimum Error	Maximum Error
MTBE	6%	-12%	12%
t12DCE	11%	-26%	21%
11DCA	8%	-19%	13%
c12DCE	9%	-19%	15%
CHCl3	9%	-20%	14%
111TCA	9%	-19%	23%
12DCA	10%	-19%	17%
BENZ	8%	-18%	13%
CCl4	10%	-23%	22%
TCE	10%	-21%	14%
112TCA	11%	-21%	21%
TOL	7%	-17%	14%
OCT	20%	-41%	42%
PCE	10%	-24%	15%
ClBENZ	7%	-16%	14%
1112TetCA	8%	-17%	18%
EtBENZ	6%	-19%	14%
mpXYL	7%	-22%	13%
oXYL	7%	-19%	13%
1122TetCA	8%	-16%	17%
135TMB	9%	-23%	17%
124TMB	10%	-28%	19%
13DCB	10%	-22%	17%
14DCB	10%	-22%	17%
12DCB	9%	-23%	17%
NAPH	10%	-24%	21%
2MeNAPH	13%	-32%	30%

(1) For 1 hour exposure, includes error related to mass value from AGI analytical method 8260C

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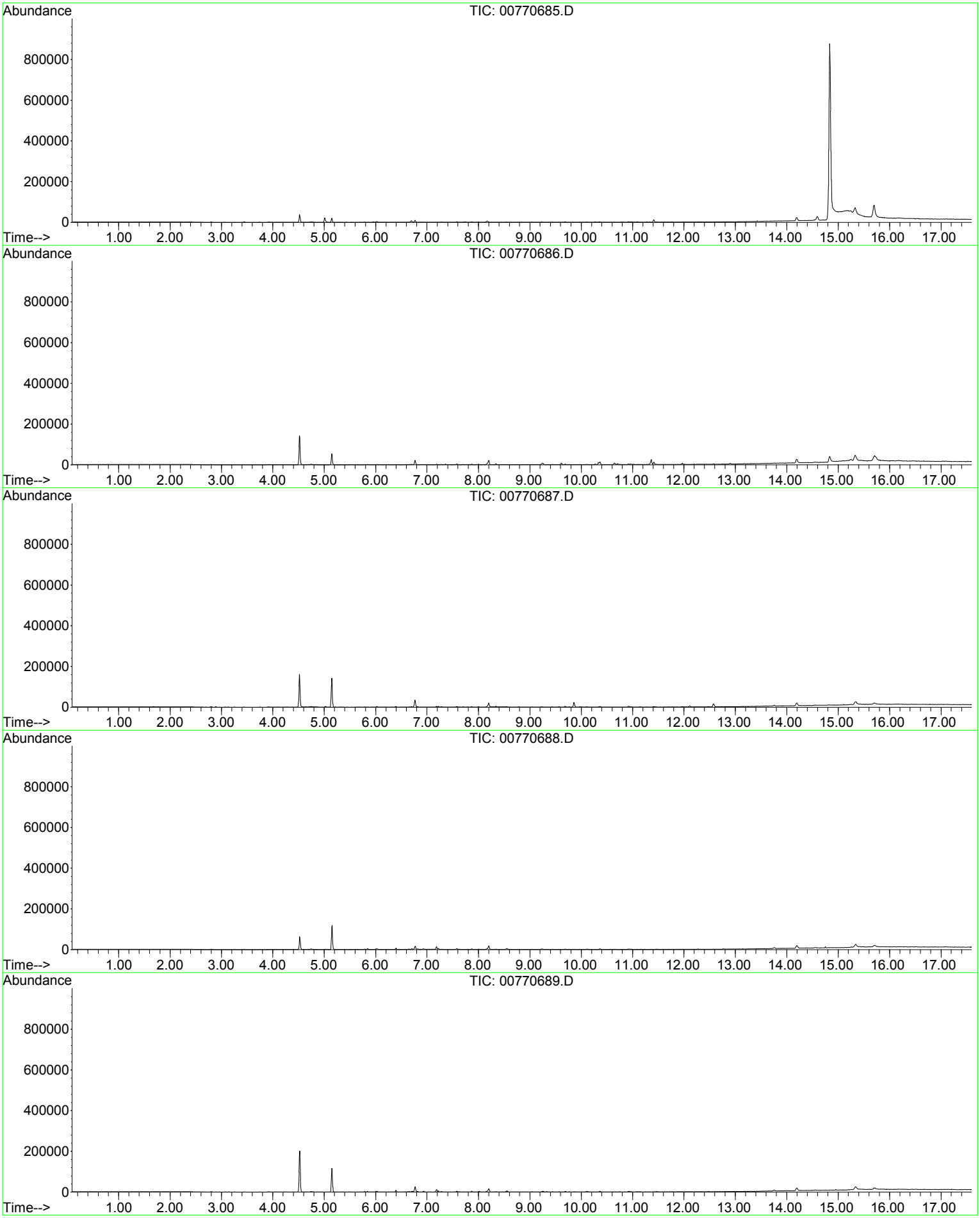
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200000
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600000
400000
200000
0
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600000
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200000
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600000
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200000
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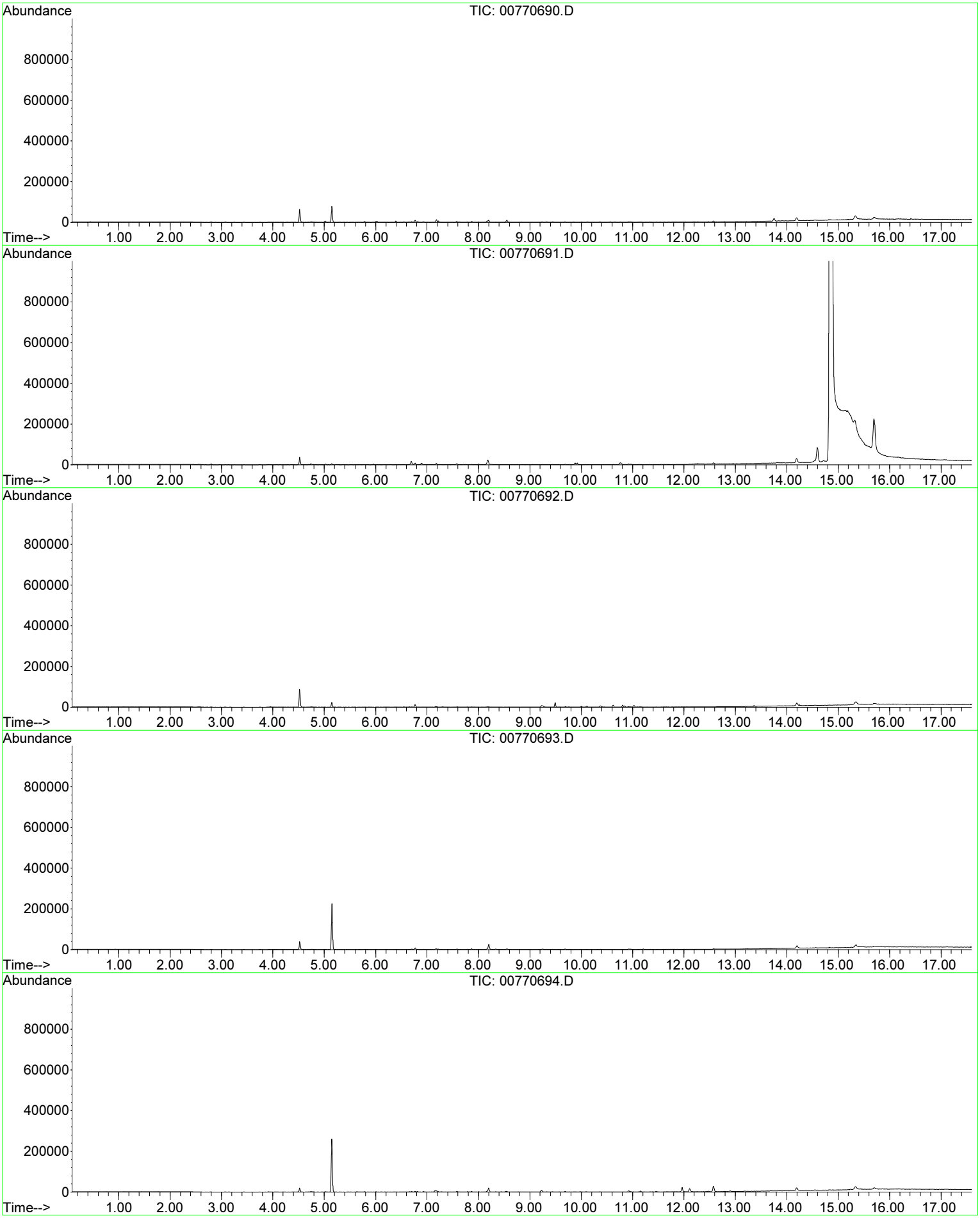
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600000
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Abundance
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600000
400000
200000
0
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Abundance
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600000
400000
200000
0
Time-->
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Abundance
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600000
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200000
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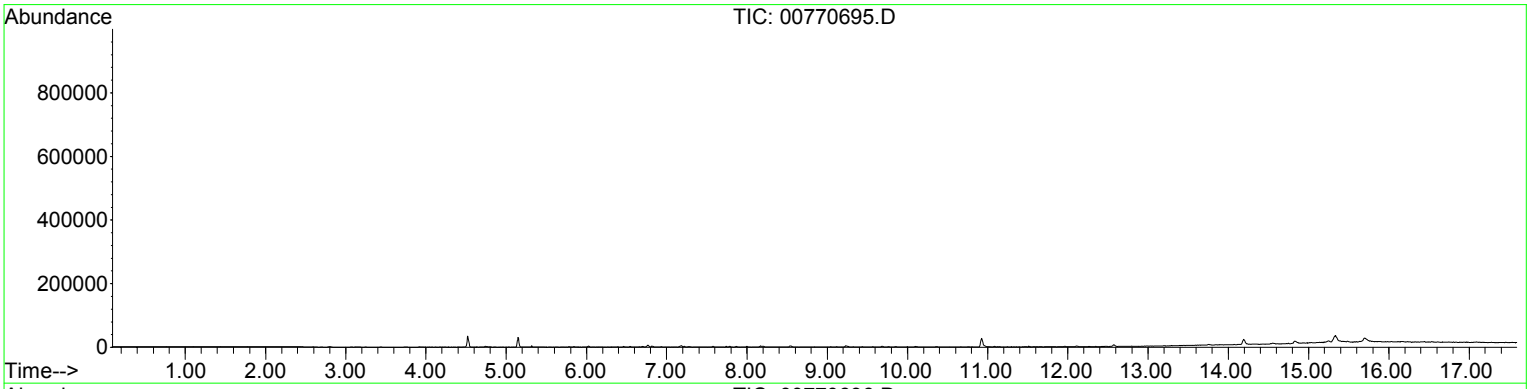
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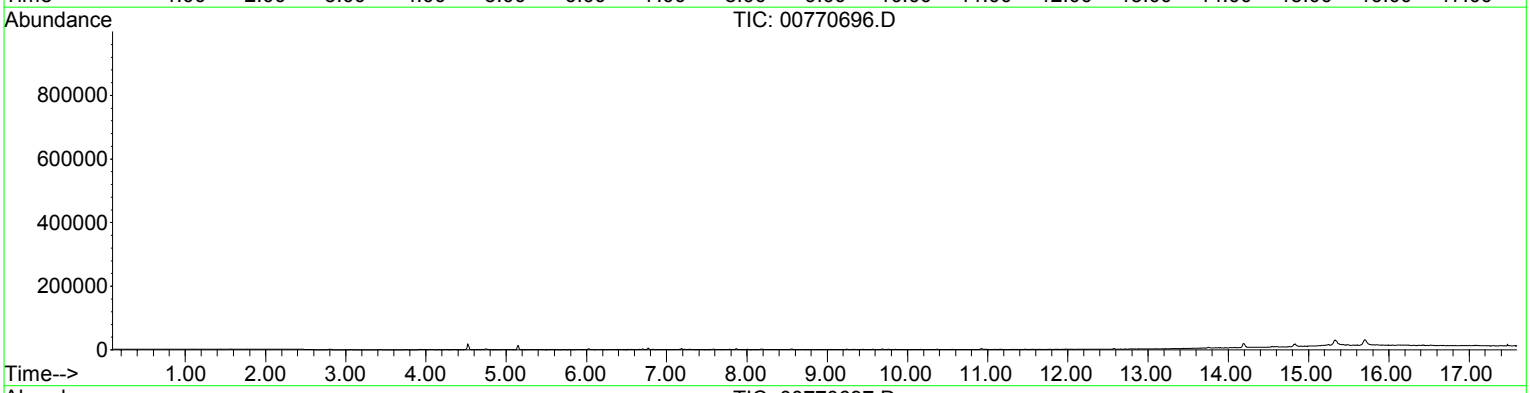
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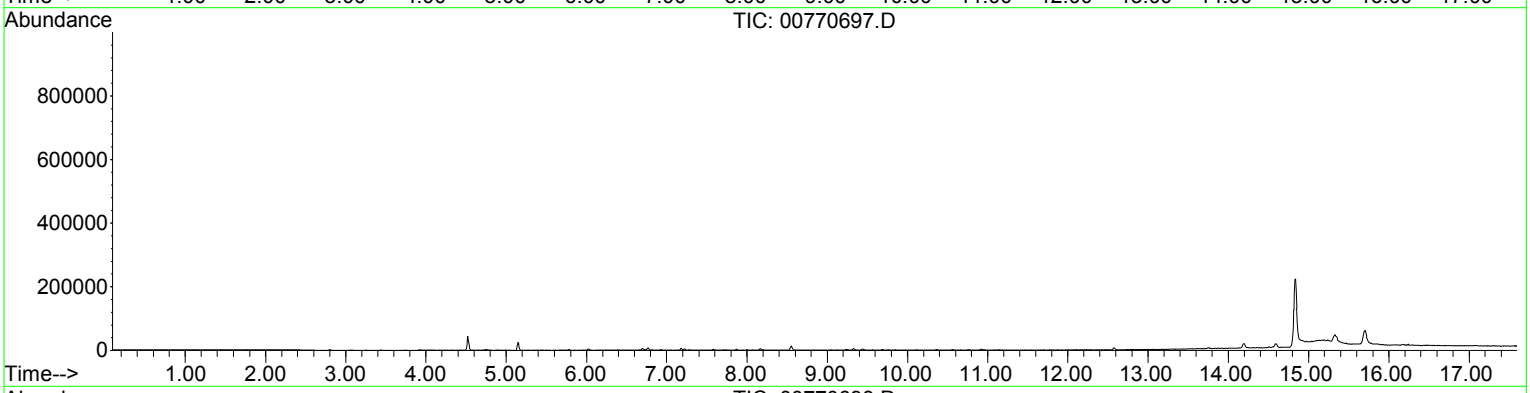
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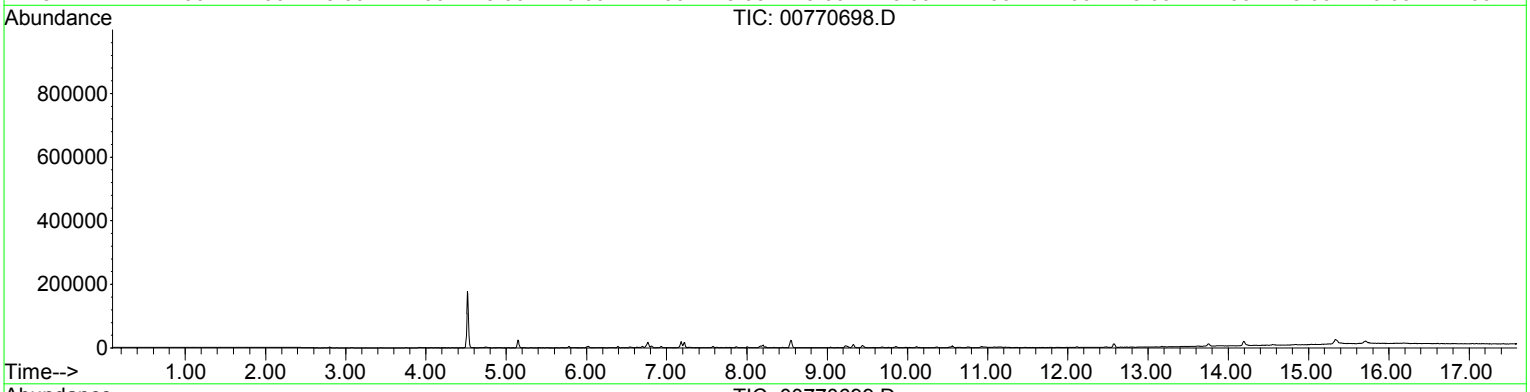
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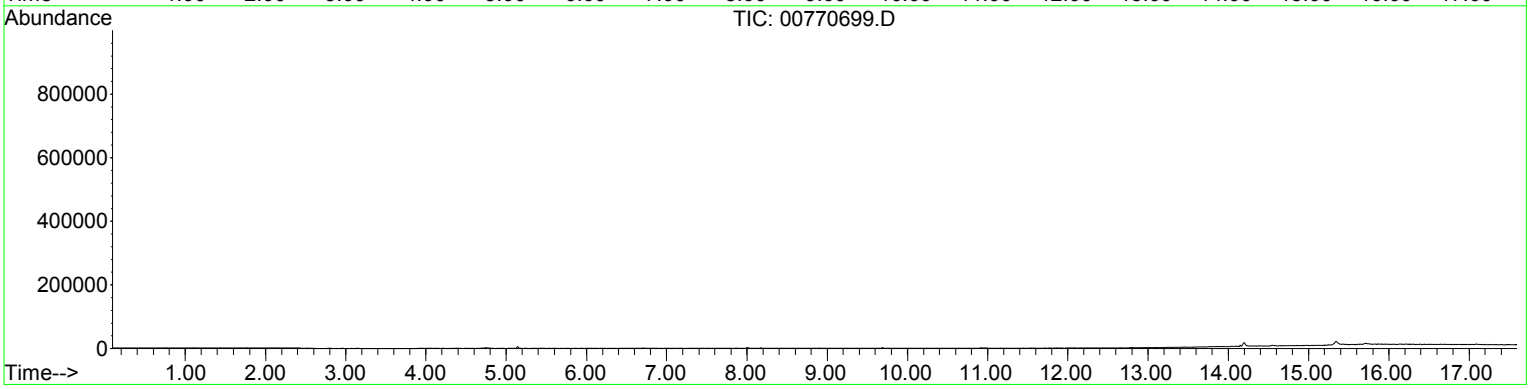
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AMPLIFIED GEOCHEMICAL IMAGING, LLC

Laboratory Report

Site: Comal & San Marcos Dec 2015
San Antonio, TX

Prepared for:

SWCA Environmental Consultants
6200 UTSA Boulevard
Suite 102
San Antonio, TX
UNITED STATES

Prepared on:
December 31, 2015

Project Summary and Objective

Amplified Geochemical Imaging, LLC. (AGI) provided the AGI Environmental Survey used at:

Comal & San Marcos Dec 2015

San Antonio, TX

The service provided by AGI included delivery of the required quantity of AGI Universal Samplers, analysis by the method described below for the requested organic compounds, reporting of the data, and contour mapping (as needed).

This report includes results for only the samples noted under the Laboratory Sample Report section. If contour maps are part of the project deliverable, the maps will be prepared and issued under a separate report cover, upon receipt of a usable sitemap (electronic) and compound choices for contouring.

Written/submitted by:

Kelly J Stringham

Project Manager

Reviewed/approved by:

Don D'Apolito

Project Manager

Analytical data approved by:

Ian McMullen

Chemist

Quality Assurance Statement

The AGI Laboratory, at Amplified Geochemical Imaging's facility in Newark, DE USA, operates under the guidelines of its ISO Standard 17025 DoD ELAP accreditation, and its Quality Assurance Manual, Operating Procedures, and Methods (SOP-QA-0462).

For this project, the analytical method, results, and observations reported do [ ] do not [√] fall within the scope of AGI's ISO 17025 accreditation.

Screening/Concentration Method

The AGI Universal Samplers are analyzed at AGI's fixed laboratory using thermal desorption-gas chromatography/mass spectrometry (TD-GC/MS) instrumentation following modified U.S. EPA Method 8260 (SPG-WI-0292) which includes the following:

- **BFB Tuning Frequency:** A BFB tune is analyzed at the start of each analytical run and after every 30 samples.
- **Initial Calibration:** A minimum of a five point calibration curve is analyzed prior to the analysis of samples.
- **Initial Calibration Verification (ICV):** Following the calibration a second-source reference standard is analyzed to verify the accuracy of the calibration. Acceptance criteria for the ICV is +/- 30%.
- **Linearity of Target Compounds:** If the RSD of any target analyte is less than or equal to 25% then average response factor can be used for quantitation. If the RSD exceeds 25% for a target compound a regression equation can be used for quantitation.
- **Continuing Calibration Verification:** After every 10 samples, and at the end of each analytical batch, a mid-level second-source Reference Standard is analyzed. The acceptance criteria for all target analytes in the reference standards are +/- 50% of the true value.
- **Method Blank:** Analyzed prior to the analysis of field samples and every 30 samples.

Note: Analyte levels reported for the field-deployed AGI Universal Samplers that exceed trip and method blank levels, and/or the reporting limit, are more likely to have originated from on-site sources.

Media Sampled:	WATER
Chemist - sample analysis:	Jasmine Smith
Chemist - data processor:	Jasmine Smith
Chemist - data review:	Ian McMullen

Method deviations: None

Please note that data file names ending with R are rerun samples using the second pair of sorbers, in which the original results were not reported. Data file names ending in D are duplicate analysis results for the second set of sorbers from the same sampler, and are reported.

Additional Report Information

- Comments
- Laboratory Sample Report
- Chain of Custody
- Installation and Retrieval Log
- Analytical Results and Key
- Concentration Calculation Method Summary
- Total Ion Chromatograms

Project Specific Comments

None

Survey period [1]	Samplers were installed on December 1, 2015 and retrieved on December 15, 2015 for a sampling period of 14 days.
Tamper seal intact:	Yes
Date received:	12/16/15 11:00 pm By: Clarence W Whigham
COC returned:	Yes

Comments:

Shipment of samplers received by AGI included unused samplers provided to SWCA at an earlier date .

1 - Installation start to end of retrieval, as reported. See installation and retrieval log for individual deployment and retrieval dates and times (i.e., sampler exposure time).

General Comments

Analytical QA/QC

Laboratory instrumentation consists of gas chromatographs equipped with mass selective detectors, coupled with automated thermal desorption units. Sample preparation involves cutting the tip off the bottom of the AGI Universal Sampler, and transferring one or more "sorbers" to a thermal desorption tube for analysis. The insertion/retrieval cord prevents soil, water and other interferences from coming in contact with the adsorbent. No further sample preparation is required. Any replicate sorbers not consumed in the initial analysis will be discarded fifteen (15) days from the date of the laboratory report.

Data are archived and stored in a secure manner as per AGI's Quality Assurance program (SOP-QA-0462).

Total petroleum hydrocarbons (TPH), gasoline-range petroleum hydrocarbons (GRPH), and/or diesel range petroleum hydrocarbons (DRPH), when reported, are calculated using the area under the peaks observed in m/z 55 and 57 selected ion chromatograms. Quantitation of the mass values was performed using the response factor for a specific alkane (present in the calibration standards). TPH values include the entire chromatogram and provide estimates for aliphatic hydrocarbon ranges of C4 to C20. GRPH and DRPH include only the relevant regions of the chromatograms and provide estimates for C4 to C10 and C10 to C20 aliphatic hydrocarbons, respectively.

Trip blanks were provided to document potential exposures that were not part of the signal of interest (e.g., impact during sampler shipment, installation and/or retrieval, and storage). The trip blanks are identically manufactured and packaged AGI Universal Samplers to those samplers deployed in the field . The trip blanks remain unopened during all phases of the project. Levels reported on the trip blanks may indicate potential impact to the samplers other than the contaminant source of interest.

Unresolved peak envelopes (UPEs) are represented as a series of compound peaks clustered together around a central gas chromatograph elution time in the total ion chromatogram. UPEs may be indicative of complex fluid mixtures. UPEs observed early in the chromatograms are considered to indicate presence of more volatile fluids, while UPEs observed later in the chromatogram may indicate the presence of less volatile fluids. Multiple UPEs may indicate the presence of multiple complex fluids.

Total ion chromatograms (TICs) are included in the Attachments. The eight-digit serial number of each sampler is incorporated in the TIC identification (e.g., 12345678.D represents AGI Universal Sampler 12345678).

General Comments

Soil Gas Sampling

For soil gas sampling, the AGI Environmental Survey reports mass levels migrating through the open pore spaces of the soil and diffusing through the sampler membrane for sorption by the engineered, hydrophobic adsorbents, housed within the membrane tube. During the migration of the soil gas away from the source to the AGI Universal Sampler, the vapors are subject to a variety of attenuation factors. The soil gas masses reported on the samplers compare favorably with the concentrations reported in the soil or groundwater (e.g., where soil gas levels are reported at greater levels to other sampled locations on the site, the matrix data should reveal the same pattern, and vice versa). However, due to a variety of factors, a perfect comparison between matrix data and soil gas levels can rarely be achieved.

Soil gas concentrations (µg/m3) are calculated following the method described in the Additional Report Information section.

Soil gas signals reported by this method cannot be correlated specifically to soil adsorbed, groundwater, and /or free-phase contamination. The soil gas signal reported from each AGI Universal Sampler can evolve from all of these sources. Differentiation between soil and groundwater contamination can only be achieved with prior knowledge of the site history (i.e., the site is known to have groundwater contamination only).

Air Sampling

For indoor, outdoor, and crawlspace air sampling, the AGI Environmental Survey reports mass levels present in the air and diffusing through the sampler membrane for sorption by the engineered adsorbents housed within the membrane tube.

Air concentrations (µg/m3) are calculated following the method described in the Additional Report Information section.

Groundwater and Sediment Porewater Sampling

For groundwater and sediment porewater sampling, the AGI Environmental Survey reports the mass levels of compounds present in the water which, when coming in contact with the sampler membrane, partitions out of solution, and diffuses through the sampler membrane for sorption by the engineered adsorbents.

Water concentrations (µg/L) are calculated using the quantified mass, exposure period and the compound specific uptake rate. The rates were measured under controlled experimental conditions. The uptake rates are corrected for water pressure (depth of the AGI Universal Sampler below the water table), water temperature and the aquifer flow rate. For sediment porewater, the uptake rate is corrected for the reduced volume of water in the sediment, by multiplying the uptake rate by the pore water fraction.

LABORATORY SAMPLE REPORT

Project: ENV 01536 **Site Name: Comal & San Marcos Dec 2015** **Module Type: SPG0008**

Module ID	Sample Type	Field ID
00770871	FIELD_SAMPLE	HCS410
00770872	FIELD_SAMPLE	HCS420
00770873	FIELD_SAMPLE	HCS430
00770874	FIELD_SAMPLE	HCS440
00770875	FIELD_SAMPLE	FDHCS440
00770876	LOST	HCS460
00770877	FIELD_SAMPLE	HSM410
00770878	FIELD_SAMPLE	HSM420
00770879	FIELD_SAMPLE	HSM430
00770880	FIELD_SAMPLE	FDHSM430
00770881	FIELD_SAMPLE	HSM440
00770882	FIELD_SAMPLE	HSM450
00770883	FIELD_SAMPLE	HSM460
00770884	FIELD_SAMPLE	HSM470
00770885	TRIP_BLANK	TB16

Total # "FIELD SAMPLES"	Total # "TRIP BLANKS"	Total # "UNUSED"	Total # "LOST"
13	1	0	1*

Duplicate samples:

Duplicate samples: 0

***770876 was listed as "not retrieved" on the installation/retrieval log.**

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ph: +1-302-266-2428
www.agisurveys.net

AGI Universal Passive Sampler Chain of Groundwater Sampling

Production Order #: 01536

Customer Name: SWCA Environmental Consultants
Address: 6200 UTSA Boulevard
Suite 102

San Antonio, TX 78249
USA

Site Name: Comal and San Marcos Rivers De
Site Address:

Project Manager:

Serial # of Samplers Shipped
00770871 - 00770885

00770876 lost in field

# of Samplers for Installation 14.00
Total Samplers Shipped 15.00
Total Samplers Received 15 Pieces
Total Samplers Installed 14 Pieces

# of Trip Blanks 1 Pieces

00755239 - 00755241 > returned unused
00753380 - 00753383 from previous over stock

Serial # of Trip Blanks (Client Decides)

00770885		

Prepared By:
Verified By: Clarence Whigham

Is Concurrent water sampling planned this monitoring period? YES (NO)

Scheduled Sampling Date:

Installation Performed By:
Name: Jennifer Moreland Brittany Rios
Company: SWCA

Installation Start Date / Time: 12/1/15 1013
Installation Complete Date / Time 12/15/15 1412

Retrieval Performed By:
Name: Jennifer Moreland Guy Rubio
Company: SWCA

Retrieval Start Date / Time: 12/15/15 1028
Retrieval Complete Date / Time 12/15/15 1328

Total Samplers Retrieved: 13
Total Samplers Lost In Field: 1
Total Unused Samplers Returned: 7 unused samples returned from old 2014 supply or when we received 2 trip blanks

Relinquished By		Date/Time	**Received By:**	Jennifer Moreland	Date/Time 11/19/15
Company:	AGI		**Company:**	SWCA	12:30 PM
Relinquished By	Jennifer Moreland	Date/Time 12/15/15	**Received By:**	Clarence Whigham	Date/Time 12/16/15
Company:	SWCA	1730	**Company:**	AGI	1188

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 Executive Drive, Suite 1
Newark, DE USA 19702-3335
ph: 302-266-2428

AGI Project No. ENV 01536
Site Name: Comal and San Marcos Rivers De
Site Location: New Braunfels and San Marcos, TX

AGI Soil Gas Sampling
Installation & Retrieval Log

Company Name: SWCA Environmental Consultants
Location: New Braunfels and San Marcos, TX
Samples collected by: Jennifer Moreland, Brittany Rios, Guy Rubio

*** Optional or as needed**

					WATER QUALITY M		
SAMPLER SERIAL NO.	**WELL ID**	**SAMPLE TYPE (Field Sample, Trip Blank, Field Blank, etc.)**	**INSTALLATION DATE & TIME MM/DD/YYYY HH:MM (24 Hour) ex. 12/30/2000 13:00**	**RETRIEVAL DATE & TIME MM/DD/YYYY HH:MM (24 Hour) ex. 12/30/2000 15:00**	**INSTALLATION DEPTH FROM TOP OF CASING (feet)**	**DEPTH TO WATER FROM TOP OF CASING (feet)**	**SCREENED INTERVAL FROM TOP OF CASING (feet)**
00770871	HCS410	FIELD_SAMPLE	12/1/15 10:28	12/15/15 10:44	1.1		
00770872	HCS420	FIELD_SAMPLE	12/1/15 10:52	12/15/15 10:52	2.1		
00770873	HCS430	FIELD_SAMPLE	12/1/15 10:13	12/15/15 10:28	3.25		
00770874	HCS440	FIELD_SAMPLE	12/1/15 11:06	12/15/15 11:01	1.9		
00770875	FDHCS440	FIELD_SAMPLE	12/1/15 11:06	12/15/15 11:01	1.9		
00770876	HCS460	FIELD_SAMPLE	12/1/15 11:23	12/15/15 11:11	2.65		
00770877	HSM410	FIELD_SAMPLE	12/1/15 12:48	12/15/15 12:06	1.5		
00770878	HSM420	FIELD_SAMPLE	12/1/15 13:05	12/15/15 12:14	2.9		
00770879	HSM430	FIELD_SAMPLE	12/1/15 13:15	12/15/15 12:23	0.55		
00770880	FDHSM430	FIELD_SAMPLE	12/1/15 13:15	12/15/15 12:23	0.55		
00770881	HSM440	FIELD_SAMPLE	12/1/15 13:30	12/15/15 12:35	5		
00770882	HSM450	FIELD_SAMPLE	12/1/15 13:45	12/15/15 13:09	2.1		
00770883	HSM460	FIELD_SAMPLE	12/1/15 13:58	12/15/15 13:19	0.8		
00770884	HSM470	FIELD_SAMPLE	12/1/15 14:12	12/15/15 13:28	1.8		
00770885	TB16	TRIP_BLANK	12/1/15 10:13	12/15/15 13:28	NA		

SPG-FCD-8930 Water R4

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 Executive Drive, Suite 1
Newark, DE USA 19702-3335
ph: 302-266-2428

AGI Project No. ENV 01536
Site Name: Comal and San Marcos Rivers De
Site Location: New Braunfels and San Marcos, TX

AGI Soil Gas Sampling
Installation & Retrieval Log

Company Name: SWCA Environmental Consultants
Location: New Braunfels and San Marcos, TX
Samples collected by: Jennifer Moreland, Brittany Rios, Guy Rubio

*** Optional or as needed**

					WATER QUALITY M		
SAMPLER SERIAL NO.	**WELL ID**	**SAMPLE TYPE (Field Sample, Trip Blank, Field Blank, etc.)**	**INSTALLATION DATE & TIME MM/DD/YYYY HH:MM (24 Hour) ex. 12/30/2000 13:00**	**RETRIEVAL DATE & TIME MM/DD/YYYY HH:MM (24 Hour) ex. 12/30/2000 15:00**	**INSTALLATION DEPTH FROM TOP OF CASING (feet)**	**DEPTH TO WATER FROM TOP OF CASING (feet)**	**SCREENED INTERVAL FROM TOP OF CASING (feet)**
Old, unused samplers were also included in the shipment for return. There serial numbers were included on the chain of custody.							

SPG-FCD-8930 Water R4

AGI Soil Gas Sampling
Installation & Retrieval L

*** Optional or as needed**

MONITORING				YES / NO	
SAMPLER SERIAL NO.	**WATER TEMPERATURE AT MODULE DEPTH (deg C)**	**FLOW RATE THROUGH SCREEN: HIGH OR LOW (HIGH = flow > than 10 m/day; LOW = flow < 10 m/day)**	**OBSERVATIONS/COMMENTS* (e.g., observations, location description, missing, pulled from well, etc. - as needed)**	**EVIDENCE OF LIQUID PETROLEUM HYDROCARBONS?**	**ODOR ?**
00770871	22.6	HIGH			
00770872	22.6	HIGH	All depths are water surface to top of sampler		
00770873	22.6	HIGH			
00770874	22.6	HIGH			
00770875	22.6	HIGH			
00770876	22.6	HIGH	Not recovered		
00770877	21.4	HIGH			
00770878	21.4	HIGH			
00770879	21.4	HIGH			
00770880	21.4	HIGH			
00770881	21.4	HIGH			
00770882	21.4	HIGH			
00770883	21.4	HIGH			
00770884	21.4	HIGH			
00770885	21.4	HIGH			

AGI Soil Gas Sampling
Installation & Retrieval L

*** Optional or as needed**

	MONITORING			YES / NO	
SAMPLER SERIAL NO.	**WATER TEMPERATURE AT MODULE DEPTH (deg C)**	**FLOW RATE THROUGH SCREEN: HIGH OR LOW (HIGH = flow > than 10 m/day; LOW = flow < 10 m/day)**	**OBSERVATIONS/COMMENTS* (e.g., observations, location description, missing, pulled from well, etc. - as needed)**	**EVIDENCE OF LIQUID PETROLEUM HYDROCARBONS?**	**ODOR ?**
Old, unused samplers wer					

AMPLIFIED GEOCHEMICAL IMAGING, LLC

210 Executive Drive, Suite 1
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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770871 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS410
Installation Date: 12/1/2015 10:28:00AM
Retrieval Date: 12/15/2015 10:44:00AM Date Analyzed: 12/22/2015 5:47:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	**67-66-3**	**0.03**	**0.02**
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.11**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770871 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS410
Installation Date: 12/1/2015 10:28:00AM
Retrieval Date: 12/15/2015 10:44:00AM Date Analyzed: 12/22/2015 5:47:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770872 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS420
Installation Date: 12/1/2015 10:52:00AM
Retrieval Date: 12/15/2015 10:52:00AM Date Analyzed: 12/22/2015 8:44:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	**108-88-3**	**0.11**	**0.02**
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.38**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770872 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS420
Installation Date: 12/1/2015 10:52:00AM
Retrieval Date: 12/15/2015 10:52:00AM Date Analyzed: 12/22/2015 8:44:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		**0.11**	**0.02**
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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SAMPLER ID: 00770873 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS430
Installation Date: 12/1/2015 10:13:00AM
Retrieval Date: 12/15/2015 10:28:00AM Date Analyzed: 12/22/2015 5:17:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.58**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770873 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS430
Installation Date: 12/1/2015 10:13:00AM
Retrieval Date: 12/15/2015 10:28:00AM Date Analyzed: 12/22/2015 5:17:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770874 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS440
Installation Date: 12/1/2015 11:06:00AM
Retrieval Date: 12/15/2015 11:01:00AM Date Analyzed: 12/22/2015 2:49:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.38**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770874 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HCS440
Installation Date: 12/1/2015 11:06:00AM
Retrieval Date: 12/15/2015 11:01:00AM Date Analyzed: 12/22/2015 2:49:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770875 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHCS440
Installation Date: 12/1/2015 11:06:00AM
Retrieval Date: 12/15/2015 11:01:00AM Date Analyzed: 12/22/2015 4:48:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.39**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770875 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHCS440
Installation Date: 12/1/2015 11:06:00AM
Retrieval Date: 12/15/2015 11:01:00AM Date Analyzed: 12/22/2015 4:48:00PM
Analyst: Jasmine Smith **Method:** SPG-WI-0292 **Batch:** ENV-151221-1
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770877 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM410
Installation Date: 12/1/2015 12:48:00PM
Retrieval Date: 12/15/2015 12:06:00PM Date Analyzed: 12/22/2015 3:19:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	127-18-4	<0.02	0.02
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770877 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM410
Installation Date: 12/1/2015 12:48:00PM
Retrieval Date: 12/15/2015 12:06:00PM Date Analyzed: 12/22/2015 3:19:00PM
Analyst: Jasmine Smith **Method:** SPG-WI-0292 **Batch:** ENV-151221-1
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770878 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM420
Installation Date: 12/1/2015 1:05:00PM
Retrieval Date: 12/15/2015 12:14:00PM Date Analyzed: 12/22/2015 2:19:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.10**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770878 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM420
Installation Date: 12/1/2015 1:05:00PM
Retrieval Date: 12/15/2015 12:14:00PM Date Analyzed: 12/22/2015 2:19:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770879 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM430
Installation Date: 12/1/2015 1:15:00PM
Retrieval Date: 12/15/2015 12:23:00PM Date Analyzed: 12/22/2015 6:46:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	**67-66-3**	**0.02**	**0.02**
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.81**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770879 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM430
Installation Date: 12/1/2015 1:15:00PM
Retrieval Date: 12/15/2015 12:23:00PM Date Analyzed: 12/22/2015 6:46:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770880 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHSM430
Installation Date: 12/1/2015 1:15:00PM
Retrieval Date: 12/15/2015 12:23:00PM Date Analyzed: 12/22/2015 8:15:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	**67-66-3**	**0.02**	**0.02**
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.76**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770880 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: FDHSM430
Installation Date: 12/1/2015 1:15:00PM
Retrieval Date: 12/15/2015 12:23:00PM Date Analyzed: 12/22/2015 8:15:00PM
Analyst: Jasmine Smith **Method:** SPG-WI-0292 **Batch:** ENV-151221-1
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770881 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM440
Installation Date: 12/1/2015 1:30:00PM
Retrieval Date: 12/15/2015 12:35:00PM Date Analyzed: 12/22/2015 3:49:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.12**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770881 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM440
Installation Date: 12/1/2015 1:30:00PM
Retrieval Date: 12/15/2015 12:35:00PM Date Analyzed: 12/22/2015 3:49:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
4,4-DDD	72-54-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
delta-BHC		<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Phenanthrene	85-01-8	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05

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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770882 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM450
Installation Date: 12/1/2015 1:45:00PM
Retrieval Date: 12/15/2015 1:09:00PM Date Analyzed: 12/22/2015 6:16:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.05**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770882 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM450
Installation Date: 12/1/2015 1:45:00PM
Retrieval Date: 12/15/2015 1:09:00PM Date Analyzed: 12/22/2015 6:16:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
Phenanthrene	85-01-8	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
delta-BHC		<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770883 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM460
Installation Date: 12/1/2015 1:58:00PM
Retrieval Date: 12/15/2015 1:19:00PM Date Analyzed: 12/22/2015 4:18:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.10**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770883 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM460
Installation Date: 12/1/2015 1:58:00PM
Retrieval Date: 12/15/2015 1:19:00PM Date Analyzed: 12/22/2015 4:18:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
Phenanthrene	85-01-8	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
delta-BHC		<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770884 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM470
Installation Date: 12/1/2015 2:12:00PM
Retrieval Date: 12/15/2015 1:28:00PM Date Analyzed: 12/22/2015 9:44:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	**127-18-4**	**0.08**	**0.02**
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770884 FIELD_SAMPLE Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: HSM470
Installation Date: 12/1/2015 2:12:00PM
Retrieval Date: 12/15/2015 1:28:00PM Date Analyzed: 12/22/2015 9:44:00PM
Analyst: Jasmine Smith **Method: SPG-WI-0292** **Batch: ENV-151221-1**
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
Phenanthrene	85-01-8	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
delta-BHC		<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

AMPLIFIED GEOCHEMICAL IMAGING, LLC
210 Executive Drive, Suite 1
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PROJECT NUMBER: ENV 01536
SITE NAME: Comal & San Marcos Dec 2015
SITE ADDRESS: San Antonio, TX

FOR: SWCA Environmental Consultants
San Antonio, TX 78249
USA

SAMPLER ID: 00770885 TRIP_BLANK Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: TB16
Installation Date: 12/1/2015 10:13:00AM
Retrieval Date: 12/15/2015 1:28:00PM Date Analyzed: 12/22/2015 9:14:00PM
Analyst: Jasmine Smith **Method:** SPG-WI-0292 **Batch:** ENV-151221-1
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Methyl tert-butyl ether	1634-04-4	<0.02	0.02
trans-1,2-Dichloroethene	156-60-5	<0.02	0.02
1,1-Dichloroethane	75-34-3	<0.02	0.02
cis-1,2-Dichloroethene	156-59-2	<0.02	0.02
Chloroform	67-66-3	<0.02	0.02
1,1,1-Trichloroethane	71-55-6	<0.02	0.02
1,2-Dichloroethane	107-06-2	<0.02	0.02
Benzene	71-43-2	<0.02	0.02
Carbon Tetrachloride	56-23-5	<0.02	0.02
Trichloroethene	79-01-6	<0.02	0.02
1,1,2-Trichloroethane	79-00-5	<0.02	0.02
Toluene	108-88-3	<0.02	0.02
Octane	111-65-9	<0.02	0.02
Tetrachloroethene	127-18-4	<0.02	0.02
Chlorobenzene	108-90-7	<0.02	0.02
1,1,1,2-Tetrachloroethane	630-20-6	<0.02	0.02
Ethylbenzene	100-41-4	<0.02	0.02
m,p-Xylene	108-38-3/106-42-3	<0.02	0.02
o-Xylene	95-47-6	<0.02	0.02
1,1,2,2-Tetrachloroethane	79-34-5	<0.02	0.02
1,3,5-Trimethylbenzene	108-67-8	<0.02	0.02
1,2,4-Trimethylbenzene	95-63-6	<0.02	0.02
1,3-Dichlorobenzene	541-73-1	<0.02	0.02
1,4-Dichlorobenzene	106-46-7	<0.02	0.02
1,2-Dichlorobenzene	95-50-1	<0.02	0.02
Undecane	1120-21-4	<0.05	0.05
Naphthalene	91-20-3	<0.05	0.05
Tridecane	629-50-5	<0.05	0.05
2-Methylnaphthalene	91-57-6	<0.05	0.05
Acenaphthylene	208-96-8	<0.05	0.05
Pentadecane	629-62-9	<0.05	0.05

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SAMPLER ID: 00770885 TRIP_BLANK Matrix: WATER Product: SPG0008
Dilution Factor: 1 Field ID: TB16
Installation Date: 12/1/2015 10:13:00AM
Retrieval Date: 12/15/2015 1:28:00PM Date Analyzed: 12/22/2015 9:14:00PM
Analyst: Jasmine Smith **Method:** SPG-WI-0292 **Batch:** ENV-151221-1
Reviewer:

Compound	CAS #	Result (ug)	RL (ug)
Acenaphthene	83-32-9	<0.05	0.05
Fluorene	86-73-7	<0.05	0.05
TPH		<0.50	0.50
BTEX		<0.02	0.02
Phenanthrene	85-01-8	<0.05	0.05
Anthracene	120-12-7	<0.05	0.05
Fluoranthene	206-44-0	<0.05	0.05
Pyrene	129-00-0	<0.05	0.05
alpha-BHC	319-84-6	<0.05	0.05
beta-BHC	319-85-7	<0.05	0.05
gamma-BHC	58-89-9	<0.05	0.05
delta-BHC		<0.05	0.05
Heptachlor	76-44-8	<0.05	0.05
Aldrin	309-00-2	<0.05	0.05
Heptachlor Epoxide	1024-57-3	<0.05	0.05
Endosulfan I	959-98-8	<0.05	0.05
4,4-DDE	72-55-9	<0.05	0.05
Dieldrin	60-57-1	<0.05	0.05
Endrin	72-20-8	<0.05	0.05
4,4-DDD	72-54-8	<0.05	0.05
Endosulfan II	33213-65-9	<0.05	0.05
Endrin Aldehyde	7421-93-4	<0.05	0.05
4,4-DDT	50-29-3	<0.05	0.05
Endosulfan Sulfate	1031-07-8	<0.05	0.05
Endrin Ketone	53494-70-5	<0.05	0.05
Methoxychlor	72-43-5	<0.05	0.05

AMPLIFIED GEOCHEMICAL IMAGING ANALYTICAL RESULTS
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE
SWCA, SAN ANTONIO, TX
AGI STANDARD TARGET COMPOUNDS
ESTIMATED WATER CONCENTRATIONS
COMAL & SAN MARCOS RIVERS DECEMBER SAMPLING
ORDER #01536

										estimated								
DATAFILE	FIELD	DATE/ TIME		DATE/ TIME		DATE/ TIME		DATE/ TIME										
NAME	ID	INSTALLED		RETRIEVED		RECEIVED		ANALYZED		DF	TPH, ug/L	MTBE, ug/L	t12DCE, ug/L	11DCA, ug/L	c12DCE, ug/L	CHCl3, ug/L	111TCA, ug/L	12DCA, ug/L	BENZ, ug/L
Average RL											0.055	0.013	0.008	0.007	0.008	0.008	0.005	0.008	0.006
00770871	HCS410	12/1/2015	CST	12/15/2015	CST	12/16/2015	EST	12/22/2015	EST	1	<0.054	<0.013	<0.008	<0.007	<0.007	0.012	<0.005	<0.008	<0.006
00770872	HCS420	12/1/2015	CST	12/15/2015	CST	12/16/2015	EST	12/22/2015	EST	1	<0.054	<0.013	<0.008	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006
00770873	HCS430	12/1/2015	CST	12/15/2015	CST	12/16/2015	EST	12/22/2015	EST	1	<0.054	<0.013	<0.008	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006
00770874	HCS440	12/1/2015	CST	12/15/2015	CST	12/16/2015	EST	12/22/2015	EST	1	<0.054	<0.013	<0.008	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006
00770875	FDHCS440	12/1/2015	CST	12/15/2015	CST	12/16/2015	EST	12/22/2015	EST	1	<0.054	<0.013	<0.008	<0.007	<0.007	<0.007	<0.005	<0.008	<0.006
00770877	HSM410	12/1/2015	CST	12/15/2015	CST	12/16/2015	EST	12/22/2015	EST	1	<0.056	<0.014	<0.008	<0.008	<0.008	<0.008	<0.005	<0.008	<0.007
00770878	HSM420	12/1/2015	CST	12/15/2015	CST	12/16/2015	EST	12/22/2015	EST	1	<0.056	<0.014	<0.008	<0.008	<0.008	<0.008	<0.005	<0.008	<0.007
00770879	HSM430	12/1/2015	CST	12/15/2015	CST	12/16/2015	EST	12/22/2015	EST	1	<0.056	<0.014	<0.008	<0.008	<0.008	0.009	<0.005	<0.008	<0.007
00770880	FDHSM430	12/1/2015	CST	12/15/2015	CST	12/16/2015	EST	12/22/2015	EST	1	<0.056	<0.014	<0.008	<0.008	<0.008	0.009	<0.005	<0.008	<0.007
00770881	HSM440	12/1/2015	CST	12/15/2015	CST	12/16/2015	EST	12/22/2015	EST	1	<0.056	<0.014	<0.008	<0.008	<0.008	<0.008	<0.005	<0.008	<0.007
00770882	HSM450	12/1/2015	CST	12/15/2015	CST	12/16/2015	EST	12/22/2015	EST	1	<0.056	<0.014	<0.008	<0.008	<0.008	<0.008	<0.005	<0.008	<0.007
00770883	HSM460	12/1/2015	CST	12/15/2015	CST	12/16/2015	EST	12/22/2015	EST	1	<0.056	<0.014	<0.008	<0.008	<0.008	<0.008	<0.005	<0.008	<0.007
00770884	HSM470	12/1/2015	CST	12/15/2015	CST	12/16/2015	EST	12/22/2015	EST	1	<0.056	<0.014	<0.008	<0.008	<0.008	<0.008	<0.005	<0.008	<0.007
00770885	TB16	12/1/2015	CST	12/15/2015	CST	12/16/2015	EST	12/22/2015	EST	1	<0.055	<0.013	<0.008	<0.007	<0.008	<0.008	<0.005	<0.008	<0.006
BLK_ENV-277013		12/1/2015	CST	12/15/2015	CST	12/16/2015	EST	12/22/2015	EST	1	<0.055	<0.013	<0.008	<0.007	<0.008	<0.008	<0.005	<0.008	<0.006

AMPLIFIED GEOCHEMICAL IMAGING ANALYTICAL RESULTS
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE
SWCA, SAN ANTONIO, TX
AGI STANDARD TARGET COMPOUNDS
ESTIMATED WATER CONCENTRATIONS
COMAL & SAN MARCOS RIVERS DECEMBER SAMPLING
ORDER #01536

DATAFILE NAME	FIELD ID	CCl4, ug/L	TCE, ug/L	112TCA, ug/L	TOL, ug/L	OCT, ug/L	PCE, ug/L	ClBENZ, ug/L	1112TetCA, ug/L	ETBENZ, ug/L	mpXYL, ug/L	oXYL, ug/L	1122TetCA, ug/L	135TMB, ug/L	124TMB, ug/L	13DCB, ug/L
Average RL		0.005	0.006	0.010	0.006	0.005	0.006	0.006	0.007	0.005	0.005	0.006	0.011	0.005	0.005	0.006
00770871	HCS410	<0.005	<0.006	<0.009	<0.006	<0.005	0.023	<0.006	<0.007	<0.005	<0.005	<0.005	<0.011	<0.005	<0.005	<0.006
00770872	HCS420	<0.005	<0.006	<0.010	0.027	<0.005	0.071	<0.006	<0.007	<0.005	<0.005	<0.005	<0.011	<0.005	<0.005	<0.006
00770873	HCS430	<0.005	<0.006	<0.009	<0.006	<0.005	0.10	<0.006	<0.007	<0.005	<0.005	<0.005	<0.011	<0.005	<0.005	<0.006
00770874	HCS440	<0.005	<0.006	<0.010	<0.006	<0.005	0.070	<0.006	<0.007	<0.005	<0.005	<0.005	<0.011	<0.005	<0.005	<0.006
00770875	FDHCS440	<0.005	<0.006	<0.010	<0.006	<0.005	0.072	<0.006	<0.007	<0.005	<0.005	<0.005	<0.011	<0.005	<0.005	<0.006
00770877	HSM410	<0.005	<0.006	<0.010	<0.006	<0.005	<0.006	<0.007	<0.007	<0.006	<0.006	<0.006	<0.011	<0.005	<0.005	<0.006
00770878	HSM420	<0.005	<0.006	<0.010	<0.006	<0.005	0.022	<0.007	<0.007	<0.006	<0.006	<0.006	<0.011	<0.005	<0.005	<0.006
00770879	HSM430	<0.005	<0.006	<0.010	<0.006	<0.005	0.15	<0.007	<0.007	<0.006	<0.006	<0.006	<0.011	<0.005	<0.005	<0.006
00770880	FDHSM430	<0.005	<0.006	<0.010	<0.006	<0.005	0.14	<0.007	<0.007	<0.006	<0.006	<0.006	<0.011	<0.005	<0.005	<0.006
00770881	HSM440	<0.005	<0.006	<0.010	<0.006	<0.005	0.028	<0.007	<0.007	<0.006	<0.006	<0.006	<0.011	<0.005	<0.005	<0.006
00770882	HSM450	<0.005	<0.006	<0.010	<0.006	<0.005	0.013	<0.007	<0.007	<0.006	<0.006	<0.006	<0.011	<0.005	<0.005	<0.006
00770883	HSM460	<0.005	<0.006	<0.010	<0.006	<0.005	0.023	<0.007	<0.007	<0.006	<0.006	<0.006	<0.011	<0.005	<0.005	<0.006
00770884	HSM470	<0.005	<0.006	<0.010	<0.006	<0.005	0.019	<0.007	<0.007	<0.006	<0.006	<0.006	<0.011	<0.005	<0.005	<0.006
00770885	TB16	<0.005	<0.006	<0.010	<0.006	<0.005	<0.006	<0.006	<0.007	<0.005	<0.005	<0.006	<0.011	<0.005	<0.005	<0.006
BLK_ENV-277013		<0.005	<0.006	<0.010	<0.006	<0.005	<0.006	<0.006	<0.007	<0.005	<0.005	<0.006	<0.011	<0.005	<0.005	<0.006

AMPLIFIED GEOCHEMICAL IMAGING ANALYTICAL RESULTS
210 EXECUTIVE DRIVE, SUITE 1, NEWARK, DE
SWCA, SAN ANTONIO, TX
AGI STANDARD TARGET COMPOUNDS
ESTIMATED WATER CONCENTRATIONS
COMAL & SAN MARCOS RIVERS DECEMBER SAMPLING
ORDER #01536

						estimated		estimated	estimated	estimated	estimated
DATAFILE	FIELD										
NAME	ID	14DCB, ug/L	12DCB, ug/L	UNDEC, ug/L	NAPH, ug/L	TRIDEC, ug/L	2MeNAPH, ug/L	Acenaphthylene, ug/L	PENTADEC, ug/L	Acenaphthene, ug/L	Fluorene, ug/L
Average RL		0.006	0.006	0.021	0.017	0.021	0.014	0.015	0.021	0.015	0.015
00770871	HCS410	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00770872	HCS420	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00770873	HCS430	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00770874	HCS440	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00770875	FDHCS440	<0.006	<0.006	<0.020	<0.016	<0.020	<0.013	<0.014	<0.020	<0.014	<0.014
00770877	HSM410	<0.006	<0.007	<0.021	<0.017	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015
00770878	HSM420	<0.006	<0.007	<0.021	<0.017	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015
00770879	HSM430	<0.006	<0.007	<0.021	<0.017	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015
00770880	FDHSM430	<0.006	<0.007	<0.021	<0.017	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015
00770881	HSM440	<0.006	<0.007	<0.021	<0.017	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015
00770882	HSM450	<0.006	<0.007	<0.021	<0.017	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015
00770883	HSM460	<0.006	<0.007	<0.021	<0.017	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015
00770884	HSM470	<0.006	<0.007	<0.021	<0.017	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015
00770885	TB16	<0.006	<0.006	<0.021	<0.017	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015
BLK_ENV-277013		<0.006	<0.006	<0.021	<0.017	<0.021	<0.014	<0.015	<0.021	<0.015	<0.015

KEY TO DATA TABLE

UNITS

µg	micrograms, relative mass value
µg/m^3	micrograms per cubic meter; estimated soil gas concentration
µg/L	micrograms per Liter; calculated water concentration

DATA QUALIFIERS

>	greater than; value exceeds calibration range, estimated value
<	less than; compound value is below the LOD and RL
J	mass value below LOQ or RL, but above LOD, estimated mass value
E	mass value exceeds upper calibration level, estimated mass value
Q	one or more quality control parameters failed for the compound

ABBREVIATIONS

AVG RL	average reporting limit; calculated based on individual field sample RLs
LOD	limit of detection
LOQ	limit of quantification
MDL	method detection limit
RL	reporting limit

1112TetCA	1,1,1,2-tetrachloroethane
111TCA	1,1,1-trichloroethane
1122TetCA	1,1,2,2-tetrachloroethane
112TCA	1,1,2-trichloroethane
11DCA	1,1-dichloroethane
11DCE	1,1-dichloroethene
124TMB	1,2,4-trimethylbenzene
12DCA	1,2-dichloroethane
12DCB	1,2-dichlorobenzene
135TMB	1,3,5-trimethylbenzene
13DCB	1,3-dichlorobenzene
14DCB	1,4-dichlorobenzene
2MeNAPH	2-methyl naphthalene
BENZ	benzene
BTEX	combined masses of benzene, toluene, ethylbenzene, and total xylenes (Gasoline Range Aromatics)
C11,C13&C15	combined masses of undecane, tridecane, and pentadecane (C11+C13+C15) (Diesel Range Alkanes)
c12DCE	cis-1,2-dichloroethene
CCl4	carbon tetrachloride
CHC13	chloroform
ClBENZ	chlorobenzene
ct12DCE	cis- & trans-1,2-dichloroethene
EtBENZ	ethylbenzene
mpXYL	m-, p-xylene
MTBE	methyl t-butyl ether
NAPH	naphthalene
OCT	octane
oXYL	o-xylene
PCE	tetrachloroethene
PENTADEC	pentadecane
PHEN	phenanthrene
t12DCE	trans-1,2-dichloroethene
TCE	trichloroethene
TMBs	combined masses of 1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene
TOL	toluene
TPH	total petroleum hydrocarbons
TRIDEC	tridecane
UNDEC	undecane
VC	vinyl chloride

SUMMARY OF SAMPLING RATE CALIBRATION FOR AGI UNIVERSAL SAMPLER IN AQUEOUS PHASES

INTRODUCTION:

The Amplified Geochemical Imaging, LLC (AGI) passive vapor sampler is designed to be used for soil gas, water, sediment pore water, and air sampling. This document describes the process used to calibrate the sampler's compound specific sampling or uptake rates in aqueous phases.

Sampling rates are measured following AGI's "Standard Practice for Determining the Sampling Rate of Passive Diffusion Samplers in Various Environmental Media": SPG-SOP-0493. Rates are used to calculate dissolved phase concentrations of volatile and semi-volatile contaminants in water. The calibration process is summarized in three parts: Part 1: shallow water, Part 2: deep water, and Part 3: sediment.

PURPOSE:

The purpose of this document is to:

1. Summarize the test protocol,
2. Summarize the methodology for analysis of data,
3. Present general results for generating concentration calibration of the AGI Universal Sampler

Principle of Operation of the AGI Samper

The AGI Universal Sampler is designed with solid adsorbents enclosed inside a tubular microporous PTFE membrane. When placed in water, the pores and hydrophobic nature of the PTFE keep liquid water from entering the membrane until a water head of about 34 feet is reached. The membrane will not keep water vapor from entering but the adsorbents are very hydrophobic and through testing validated to be unaffected by this moisture vapor. In shallow water, <34', volatile and semi-volatile compounds will partition from the dissolved water into the air phase in the PTFE membrane according to Henry's Law. This partitioning is instantaneous and within seconds-minutes, the compound is adsorbed by the adsorbent inside the sealed tube. Because the diffusivity in air is about 10,000 times higher than the diffusivity in water, the sampling rate is controlled by the water contact area of the membrane that allows the Henry's Law effect to occur. This contact area is set by the membrane diameter and length of the sealed tube, which is fixed in AGI's manufacturing process.

Henry's law as well as diffusivity, which are fundamentally incorporated into the sampling rate, are affected by temperature, T, and follow an Arrhenius equation H_T = Hr x exp([-Ea/R](1/Tr - 1/T)). Because a 5°C temperature change can make a 15% change in sampling rate, the temperature of the sampled water should be known to get the most precise concentration.

The membrane pore size is also small enough that colloidal particles and microbes cannot pass through the membrane. This keeps the adsorbent from getting contaminated and eliminates any need to add preservative or chilling during storage or transportation.

When the water pressure exceeds the water entry pressure of the membrane, about 34 feet of water, the water becomes in contact with the solid adsorbent. Under this condition the compounds in the water will partition from the water into the solid. The partitioning coefficient, K_{AW}, can be approximated by the octanol-water coefficient, K_{OW}, but has been measured more precisely in the lab for AGI's specific solid adsorbent. The sampling rate is the product of the sampling rate at <34' of water and the K_{AW}.

In sediment, the sampler measures pore-water concentration, which is generally agreed to be the preferred measurement as it is more indicative of bioavailability. In sediment the volumetric

availability of water to the sampler is reduced by the volume fraction solids in the sediment, which typically varies from zero to 35%, but can be has high at 73% in well packed and broad particle size distribution sediments. As a result, sampling rates in sediment are multiplied by the fraction pore water in the sediment to determine concentration.

PART 1: Calibration in shallow water

Part 1 summarizes the work in shallow water generating calibration data, evaluating the physical and chemical factors affecting the sampling rate, and measurement of the actual sampling rates or regression calibration equations needed to determine concentrations.

Sample Generation in water

In this calibration work, solutions of analytes at known concentrations were formulated in clean 4 liter smoked glass jugs by injecting microliter measured amounts of environmental standards using a calibrated syringe into pure or deionized water and stirring for a minimum of 2 hours but generally overnight. Headspace in the jugs was minimized and generally less than 1% by volume during the tests. Jugs were temperature controlled by placing them in a water filled cooler, chilled via a cooper tubing loop in the cooler. Temperature was measured with a certified digital temperature gauge and an average value used for each temperature experiment.

AGI samplers were weighted so they won't float and placed in the jugs at time zero. They were removed at various intervals to generate samples along with duplicates that showed mass increasing with exposure time. The sampler exposure time was selected to span minutes to hours and was generally reduced for high concentration tests to maintain uptake with time in roughly the linear dynamic range. Samplers were removed and dried with a paper towel and returned to their original container for analysis. They were analyzed by AGI's 8260C (SPG-WI-318 or SPG-WI-10028) method in duplicate, which is based on EPA SW846 Method 8260C.

Water samples were also taken and measured at an outside accredited lab using EPA SW846 Method 8260B. The concentrations agreed well with the calculated concentrations based on the standard certification, jug volume, and syringe injection. The variability of the outside lab 8260B values were found to be high, so for the sampling rate calculations we used the concentrations based on syringe dosing.

Calibrations were run at five concentrations, nominally at 6, 24, 118, 590, 1420 ug/L and five temperatures nominally at 5, 10, 15, 20, and 25 degrees centigrade. Samples were taken at 4 different exposure times. Samples were run in duplicate. A total of 176 data points were generated using 28 compounds from AGI's standard compounds list. Tridecane and pentadecane were not evaluated due to their very low solubility in water. In addition, another 23 compounds were tested using an 8260 liquid standard at nominal concentrations of 0.5, 1.0, 5.0, 15, 95, and 470 ug/L at a temperature typical of groundwater, 15°C. This is a living calibration and as additional data are generated, they may be qualified and added to this data set to improve the precision of the sampling rate calibration and broaden the compound list.

Key Variable Effects

As expected from theory, at short to moderate exposure times, mass will increase roughly linearly proportional to exposure time, as well as proportional to concentration, and exponentially with temperature following Arrhenius law. Temperature affects the Henry's law as well as diffusivity in water. Sampling rate is generally independent of concentration and time at mass values significantly below saturation. In the following sections we have characterized the sampling rate for each compound as affected by temperature and also developed calibrations using regression which account for the minor impact of time, and mass.

Concentration using Simple Sampling Rate Determination

A simple way to determine concentration is to measure mass on the AGI sampler, divide by exposure time, and divide by sampling rate, SR.

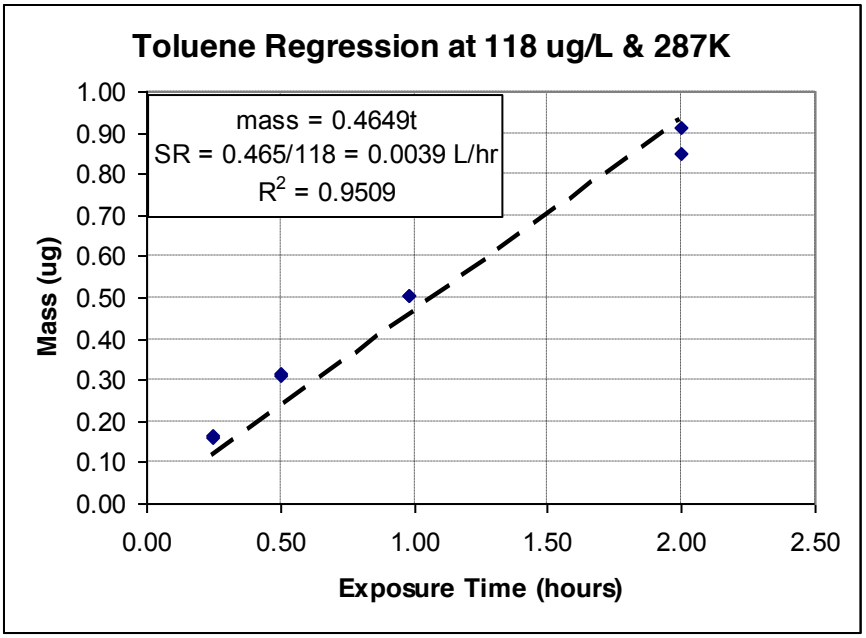
Conc [ug/L] = mass/time/SR (1)

The sampling rate can be determined via measurements of mass versus time at a known concentration and temperature according to the following modification of equation (1).

SR = mass/time/concentration (2)

Sampling rates in L/hr were determined by measuring the trend or regression mass uptake versus time and dividing by the concentration. A measurement like this will use 8 data points (4 times x 2 samples). Such a sampling rate can be measured at any concentration and temperature.

The chart to the right shows a plot of mass versus time for water at 118 ug/L and 287K (actual data from a single run). Slope of 0.465 ug/hr divided by the concentration of 118 ug/L yields a sampling rate, SR, of 0.0039 L/hr.



SR's typically range from about 0.004 to 0.007 L/hr at 15°C. Table A shows SR's measured for our standard compound list at 5 temperatures.

Rigorous Concentration using Regression

A preferred method for determining concentration that will yield improved accuracy over a wide range of concentrations, exposure times, and temperatures is to use all data in a regression analysis, which allows adjustments for the minor non-linear influences of mass and time as well as the effects of temperature. This step is done by regressing equation (1) or a universal version of equation (1):

$$Conc = (mass)^{b} / (time)^{-d} / [-SRo * \exp(-Ea/R/T)] \quad (3)$$

The subtle non-linear effects of mass and time will be evident in the deviation of coefficients b and d from 1.0. This regression generates four constants b, d, SRo, and –Ea/R by regressing ln(conc) versus ln(mass), ln(time), 1/temp. These four constants can be used to determine concentration via the equation:

$$Conc = (mass)^{b} / (time)^{-d} / [-SRo \times \exp(-Ea/R(1/T))] \quad (4)$$

Where conc is in ug/L, mass is in ug, time in hours, T in degrees Kelvin.

Equation (4) an be also expressed at a reference temperature, Tr, such as 15°C by

$$Conc = (mass)^{b} / (time)^{-d} / [-SRr \times \exp(-Ea/R(1/Tr-1/T))] \quad (5)$$

This step allows sampling rates, SRr, at any reference temperature, Tr, and for any analyte to easily be compared. The values of SRr at 293.14K can be found in Table A.

When sampling times are between 0 and 4 hours, using the 4 constant equation (5) is preferred. For concentrations from about 5 to 1500 ug/L one hour exposure times generally give the lowest error, typically with average error of 6-20% and with total error range of 12%-32%. For low concentrations where sampling times are greater than 4 hours, it is preferred to use equation (1) to avoid unrealistic effects from the coefficient d or to set d to 1.0. In such a case SR in equation (1) can be substituted with [SRr x exp(-Ea/R(1/Tr-1/T))] to use an SR representative of the well temperature, T.

The chart to the right is a plot of the calculated concentration from the 4 constant regression compared to the dosed concentration. Agreement is excellent for the 176 data points.

However, there does appear to be a slight high bias of 8.6% over the full range of this data, although it is well within acceptable limits of variability.

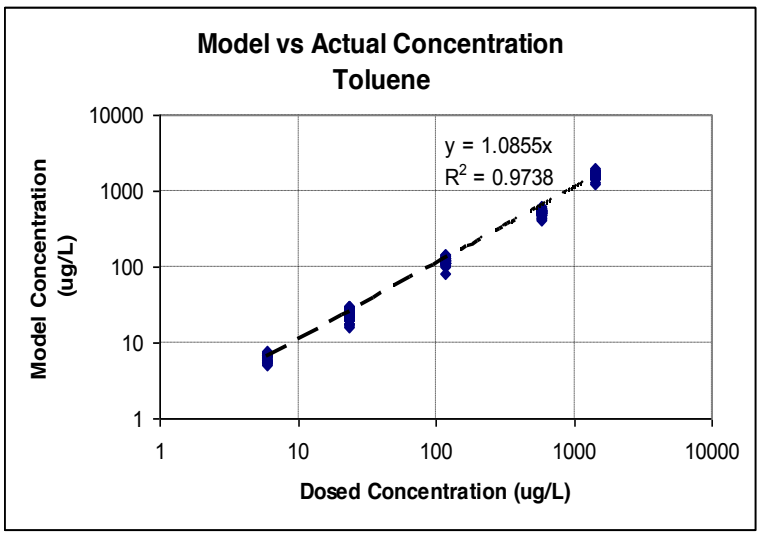


Table B shows the tabulated summary of the 4 constants regression with Rsq values and error estimates for the 4 constants for each analyte. Most regression Rsq values are 0.99 or greater for each analyte. In general, -Ea/R is about 2400+/-400, b is about 0.9, d is about -0.75, and SR(15°C) ranges from .004 L/hr to 0.007 L/hr increasing with MW of the compound.

Error Estimates

The error in the water concentration values will depend on both the error in mass from the analytical method as well as the error in the concentration calibration. Table C shows the error in the mass values from the 8260C low sensitivity method.

The standard error of the regression and standard errors of the constants can be found in table B. For each compound we have measured the error between the derived concentration and the actual concentration. The error tends to be lowest at our recommended exposure time of one hour as shown by the example for Toluene to the right.

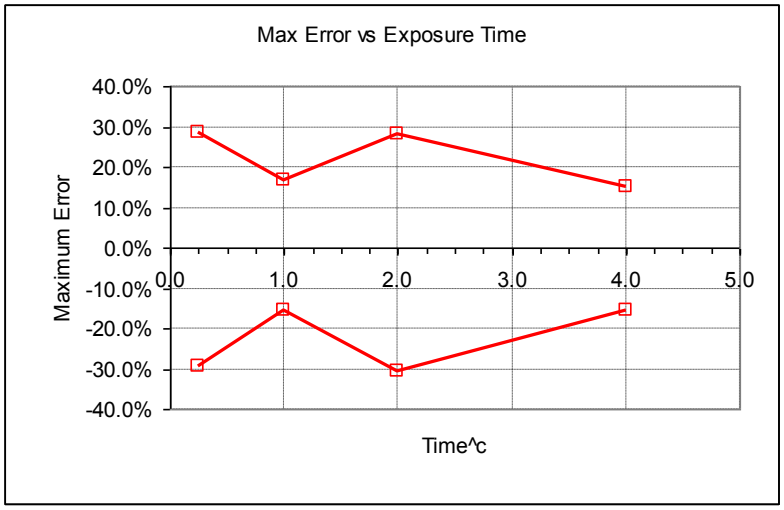
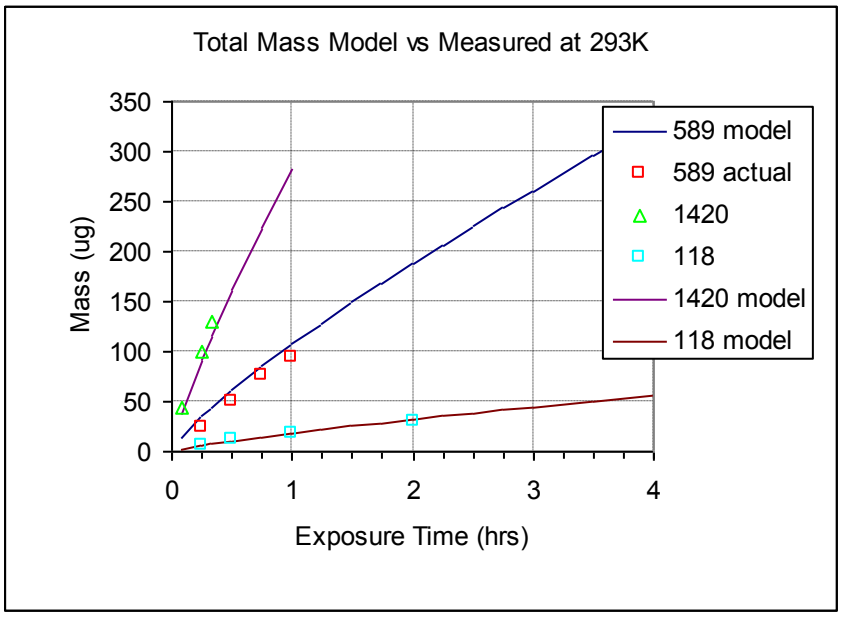


Table D shows the total average error in water concentration by compound as well as the low and high error. The average ranges from about 6% to 20%, which is similar to the analytical method errors. The low and high errors range from 12% to 32% and include contribution from measurement errors in both time and temperature.

Sorbent Saturation

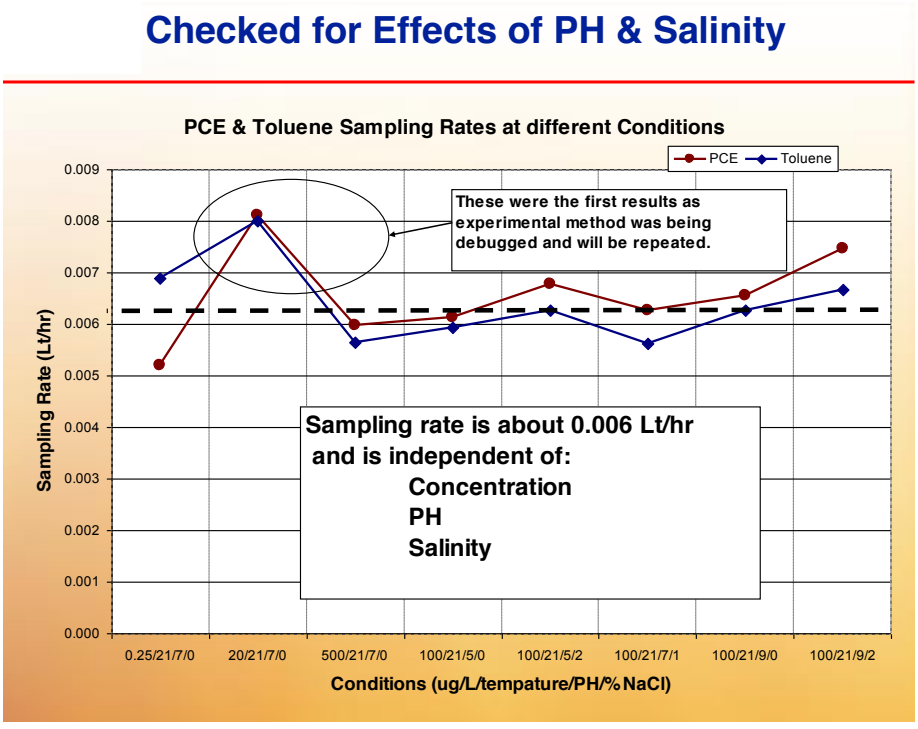
As mass increases on a solid sorbent and approaches saturation, reverse diffusion can occur causing the sampling rate to drop. Eventually the mass level will reach a maximum steady state value at any concentration. A rate of mass uptake with time that deviates significantly from linear, indicates that sorbent saturation could be an issue. When using equation (1), staying in the linear range to avoid the effects of adsorbent saturation is important. We recommend keeping the total mass on the sampler below 50 ug or flagging when this is exceeded.

The 4 constant regression accounts for some of the non linearity allowing good accuracy at higher mass levels. From the experimental data we have found this safe range can be extended to 100 ug or higher as shown in the chart below. This chart compares total mass of all compounds (excluding heavy alkanes, which have solubility issues) versus time in comparison to that predicted from the 4-constant concentration equation.



Effect of PH and Salinity

Because neither PH nor salinity is known to have a significant impact on Henry's law or diffusivity in water, we did not expect them to have a significant impact on sampling rate. To confirm this, experiments were run varying PH from 5 to 9 and NaCl content from 0 to 2%. The chart below shows no significant impact for combinations of PH and NaCl content over this range on the sampling rate of toluene in water at 21°C.

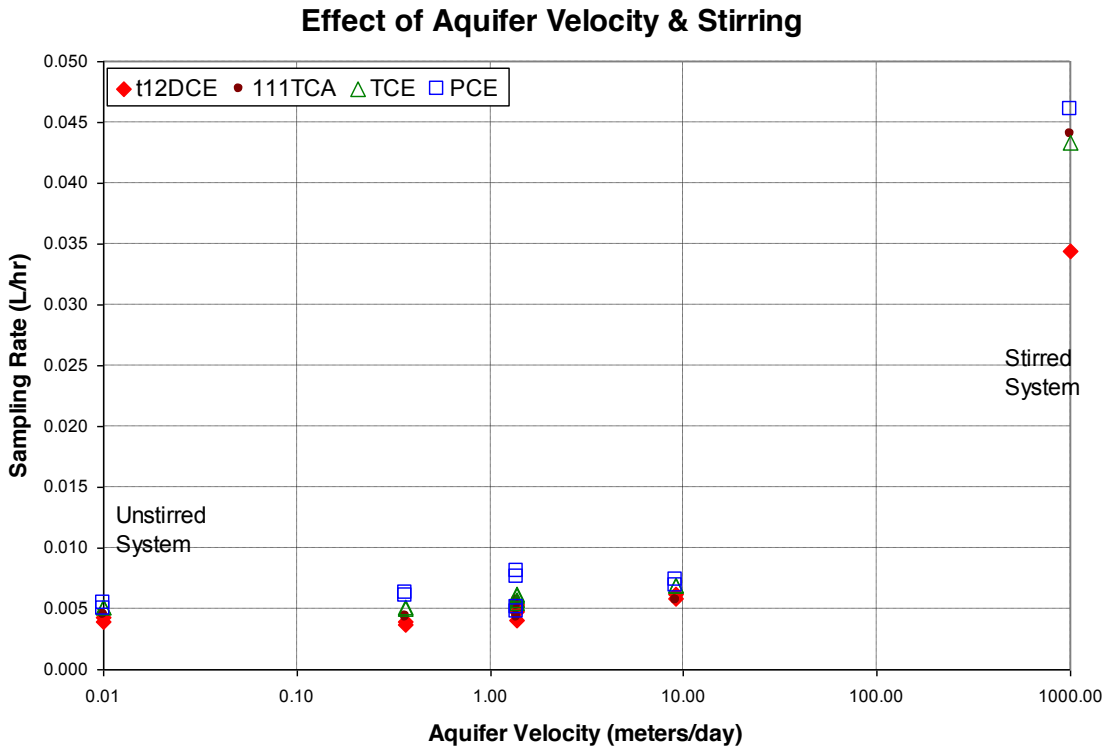


Impact of Aquifer Velocity

The velocity in most aquifers is quite slow, typically a meter/day or less. Occasionally water flow could be much higher such as encountered in karst aquifers, streams or rivers. Mass transfer coefficients are higher in high flow conditions, which will lead to higher sampling rates. We validated that a highly stirred system had sampling rates about 10 times higher than those that were non-stirred. We decided to evaluate the effect of aquifer velocity.

A test apparatus was built comprising a 3" PVC pipe tee filled with clean sand in each of the horizontal straight legs and screened to leave the center open. A test solution was run through this system using a variable flow pump and AGI samplers were placed into the simulated well through the vertical leg of the tee. Tests were run to examine the effect of velocity by varying the pumping rate and hence water velocity.

The chart below shows no significant effect of aquifer velocity up to a speed of about 10 meters/day. At velocities significantly above this, similar to a stirred system, sampling rates are about 10 times higher.

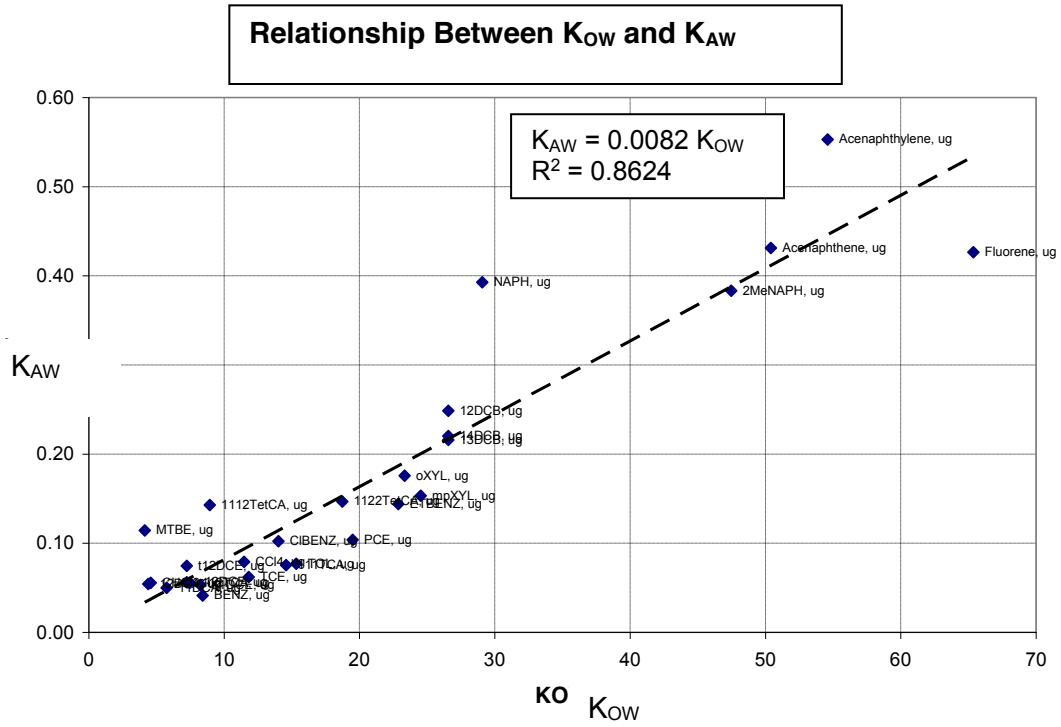


Part 2: Calibration in Deep (>34') water

Part 2 describes the effect of deep water on the AGI sampler and summarizes the effects on sampling rate and concentration measurement.

When the water pressure exceeds the water entry pressure of the membrane, about 34 feet of water, the water becomes in direct contact with the solid adsorbent. Under this condition the compounds in the water will partition from the water into the solid. The portioning coefficient is closely related to the octanol-water coefficient, K_{OW}, but has been measured more precisely in the lab for AGI's specific solid adsorbent, K_{AW}. The sampling rate for deep water is the product of the sampling rate at <34' of water and the K_{AW}.

Measurement of the K_{AW} was done in a one liter stainless steel vessel pressurized with nitrogen to simulate water heads above 34' of water. Pressures of up to 465 psig or 200' of water head were used. The sampling rate change was the same at all pressures above 34' of water. The K_{AW} was determined as the ratio between the mass or sampling rate above 34' of head to the rate at <34' of head and is shown in the chart below.



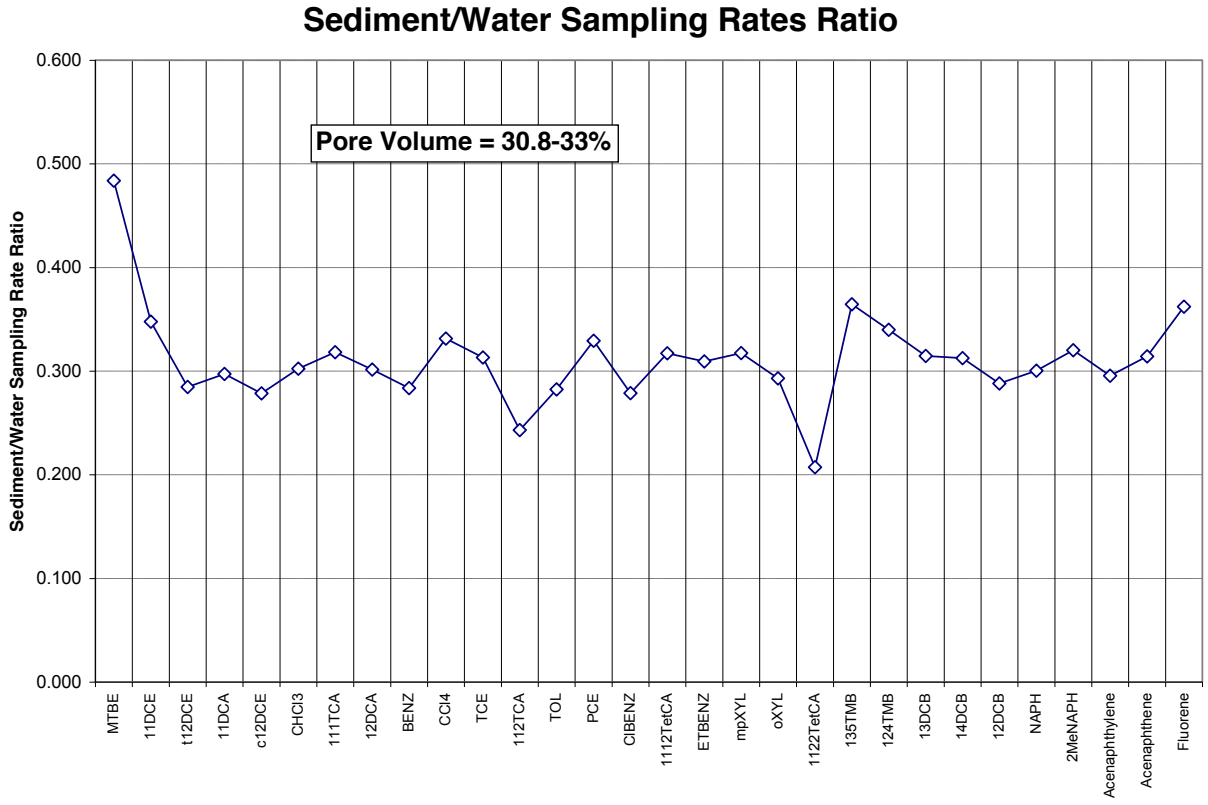
Part 3: Calibration in Sediment

Part 3 describes the effect of sediment solids or sediment pore volume on the sampling rate and concentration measurement.

In sediment, the sampler measures pore water concentration, which is generally agreed to be the preferred measurement as it is more indicative of bioavailability. In sediment the volumetric availability of water to the sampler is reduced by the volume fraction solids in the sediment. As a result sampling rates in sediment are multiplied by the fraction pore water to determine

concentration. Pore water fraction can range from 1.0 for water without sediment to as low as 0.25. Typically most sediments have pore fractions of 0.9 to 0.65.

A sampling rate study was done with water and with water added into a well-packed sorted sand. Pore water fraction in this test was measured between 30.8% and 33% by volume. Below is a plot of the ratio of sampling rates measured in the sediment to open water. The average ratio is equal to the pore water fraction confirming that sampling rate in sediment is on average equal to the product of pore water fraction times the sampling rate in water.



Summary

The AGI Sampler can be used to determine the concentration of volatile and semi-volatile compounds in a water phase. This requires knowing the exposure time and water temperature. It also requires knowing if the sample is above or below 34' of water head and if the water has a velocity above 10 meters/day. Regressions of large amounts of data were used to generate a four constant equation to generate concentration values in water. Potential error in the concentration values is excellent typically less than 25%.

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TABLE A

WATER SAMPLING RATES STANDARD LIST

	SRr 293.14	SR @ 277.54	SR @ 282.44	SR @ 287.84	SR @ 293.24	SR @ 298.94
MTBE	0.0025	0.0014	0.0016	0.0018	0.0022	0.0029
t12DCE	0.0043	0.0028	0.0028	0.0027	0.0037	0.0048
11DCA	0.0047	0.0031	0.0033	0.0033	0.0039	0.0052
c12DCE	0.0046	0.0030	0.0031	0.0031	0.0038	0.0051
CHCl3	0.0046	0.0030	0.0031	0.0031	0.0038	0.0051
111TCA	0.0066	0.0043	0.0047	0.0047	0.0056	0.0076
12DCA	0.0045	0.0029	0.0029	0.0030	0.0036	0.0050
BENZ	0.0050	0.0031	0.0034	0.0035	0.0042	0.0056
CCl4	0.0068	0.0044	0.0048	0.0047	0.0058	0.0080
TCE	0.0052	0.0030	0.0034	0.0034	0.0043	0.0058
112TCA	0.0043	0.0027	0.0027	0.0028	0.0034	0.0048
TOL	0.0056	0.0034	0.0039	0.0039	0.0047	0.0062
OCT	0.0064	0.0046	0.0050	0.0040	0.0058	0.0089
PCE	0.0061	0.0036	0.0043	0.0043	0.0051	0.0069
ClBENZ	0.0054	0.0033	0.0039	0.0040	0.0045	0.0059
1112TetCA	0.0061	0.0037	0.0042	0.0044	0.0050	0.0065
EtBENZ	0.0060	0.0037	0.0045	0.0044	0.0052	0.0069
mpXYL	0.0064	0.0039	0.0048	0.0046	0.0055	0.0072
oXYL	0.0066	0.0041	0.0050	0.0048	0.0057	0.0074
1122TetCA	0.0044	0.0027	0.0029	0.0031	0.0036	0.0046
135TMB	0.0079	0.0046	0.0059	0.0056	0.0071	0.0093
124TMB	0.0078	0.0046	0.0060	0.0055	0.0071	0.0092
13DCB	0.0072	0.0041	0.0055	0.0053	0.0063	0.0080
14DCB	0.0071	0.0040	0.0054	0.0052	0.0062	0.0079
12DCB	0.0070	0.0040	0.0053	0.0051	0.0060	0.0076
UNDEC		0.0026	0.0024	0.0020	0.0031	0.0029
NAPH		0.0041	0.0056	0.0054	0.0064	0.0081
TRIDEC						
2MeNAPH		0.0043	0.0066	0.0066	0.0080	0.0108
PENTADEC						
Total mass	0.1177	0.0822	0.1339	0.1334	0.1773	0.1981

Notes:

Values in L/hr

Total mass does not include UNDEC, TRIDEC, PENTADEC (28 compounds)

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TABLE B

4 CONSTANT REGRESSION OUTPUT

	Adjusted Rsq	Standard Error	ln(SR0)	b	-Ea/R	d	Std Error ln(SR0)	Std Error b	Std Error -Ea/R	Std Error d
MTBE	0.997	0.0960	-3.217	0.981	2704	-0.709	0.2881	0.0062	83	0.0082
t12DCE	0.992	0.1659	-1.877	0.905	2147	-0.760	0.4971	0.0100	144	0.0138
11DCA	0.995	0.1272	-1.346	0.916	1965	-0.746	0.3809	0.0077	110	0.0106
c12DCE	0.995	0.1299	-1.905	0.911	2137	-0.751	0.3892	0.0078	112	0.0109
CHCl3	0.996	0.1260	-1.841	0.912	2118	-0.748	0.3776	0.0076	109	0.0105
111TCA	0.995	0.1279	-2.684	0.902	2259	-0.761	0.3836	0.0076	111	0.0106
12DCA	0.995	0.1263	-2.161	0.908	2218	-0.746	0.3786	0.0076	109	0.0106
BENZ	0.995	0.1323	-2.207	0.920	2198	-0.754	0.3965	0.0080	114	0.0110
CCl4	0.994	0.1405	-3.121	0.889	2379	-0.776	0.4220	0.0083	122	0.0116
TCE	0.992	0.1655	-3.338	0.900	2522	-0.772	0.4969	0.0099	144	0.0137
112TCA	0.995	0.1264	-2.412	0.896	2302	-0.724	0.3790	0.0075	109	0.0107
TOL	0.994	0.1426	-2.873	0.916	2364	-0.756	0.4281	0.0087	124	0.0119
OCT	0.938	0.4698	-5.984	0.822	3235	-0.827	1.4231	0.0277	412	0.0388
PCE	0.991	0.1773	-3.780	0.877	2601	-0.775	0.5329	0.0103	154	0.0147
ClBENZ	0.994	0.1457	-2.601	0.911	2292	-0.747	0.4370	0.0088	126	0.0122
1112TetCA	0.996	0.1235	-2.676	0.898	2281	-0.725	0.3705	0.0073	107	0.0104
EtBENZ	0.993	0.1597	-2.930	0.918	2357	-0.752	0.4794	0.0097	138	0.0134
mpXYL	0.992	0.1678	-3.036	0.909	2372	-0.749	0.5037	0.0101	145	0.0140
oXYL	0.993	0.1555	-2.862	0.911	2312	-0.740	0.4667	0.0094	135	0.0131
1122TetCA	0.996	0.1118	-1.971	0.913	2167	-0.691	0.3351	0.0067	97	0.0096
135TMB	0.988	0.2024	-4.435	0.897	2720	-0.738	0.6093	0.0121	176	0.0170
124TMB	0.989	0.1997	-4.126	0.890	2631	-0.731	0.6009	0.0118	173	0.0169
13DCB	0.991	0.1832	-3.422	0.888	2449	-0.730	0.5503	0.0108	159	0.0155
14DCB	0.991	0.1802	-3.263	0.892	2408	-0.724	0.5413	0.0107	156	0.0153
12DCB	0.992	0.1697	-2.970	0.894	2327	-0.716	0.5092	0.0101	147	0.0144
UNDEC	0.694	0.374	-1.406	0.426	1708	-0.806	1.792	0.028	517	0.053
NAPH	0.992	0.166	-3.374	0.915	2430	-0.671	0.497	0.010	144	0.014
TRIDEC										
2MeNAPH	0.984	0.238	-5.498	0.869	2990	-0.689	0.72	0.014	208	0.021
PENTADEC										
Total mass	0.993	0.1543	-6.111	0.907	2419	-0.732	0.4666	0.0093	134	0.0130

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TABLE C

8260C MASS UNCERTAINTY

AGI 8260C Method for Mass using SPG-0008 Samplers

	99% Uncertainty Range +/-	95% Uncertainty Range +/-
MTBE	20%	14%
t12DCE	22%	15%
11DCA	18%	12%
c12DCE	18%	12%
CHCl3	16%	11%
111TCA	18%	12%
12DCA	20%	13%
BENZ	16%	10%
CCl4	19%	12%
TCE	15%	10%
112TCA	18%	12%
TOL	15%	10%
OCT	20%	13%
PCE	16%	11%
ClBENZ	18%	12%
1112TetCA	19%	13%
EtBENZ	18%	12%
mpXYL	18%	12%
oXYL	18%	12%
1122TetCA	23%	15%
135TMB	21%	14%
124TMB	20%	14%
13DCB	19%	13%
14DCB	19%	13%
12DCB	20%	14%
NAPH	21%	14%
2MeNAPH	25%	17%

TABLE D

4 CONSTANT WATER CONCENTRATION UNCERTAINTY

ERROR IN CONCENTRATION REPORTING (1)

	Average Error	Minimum Error	Maximum Error
MTBE	6%	-12%	12%
t12DCE	11%	-26%	21%
11DCA	8%	-19%	13%
c12DCE	9%	-19%	15%
CHCl3	9%	-20%	14%
111TCA	9%	-19%	23%
12DCA	10%	-19%	17%
BENZ	8%	-18%	13%
CCl4	10%	-23%	22%
TCE	10%	-21%	14%
112TCA	11%	-21%	21%
TOL	7%	-17%	14%
OCT	20%	-41%	42%
PCE	10%	-24%	15%
ClBENZ	7%	-16%	14%
1112TetCA	8%	-17%	18%
EtBENZ	6%	-19%	14%
mpXYL	7%	-22%	13%
oXYL	7%	-19%	13%
1122TetCA	8%	-16%	17%
135TMB	9%	-23%	17%
124TMB	10%	-28%	19%
13DCB	10%	-22%	17%
14DCB	10%	-22%	17%
12DCB	9%	-23%	17%
NAPH	10%	-24%	21%
2MeNAPH	13%	-32%	30%

(1) For 1 hour exposure, includes error related to mass value from AGI analytical method 8260C

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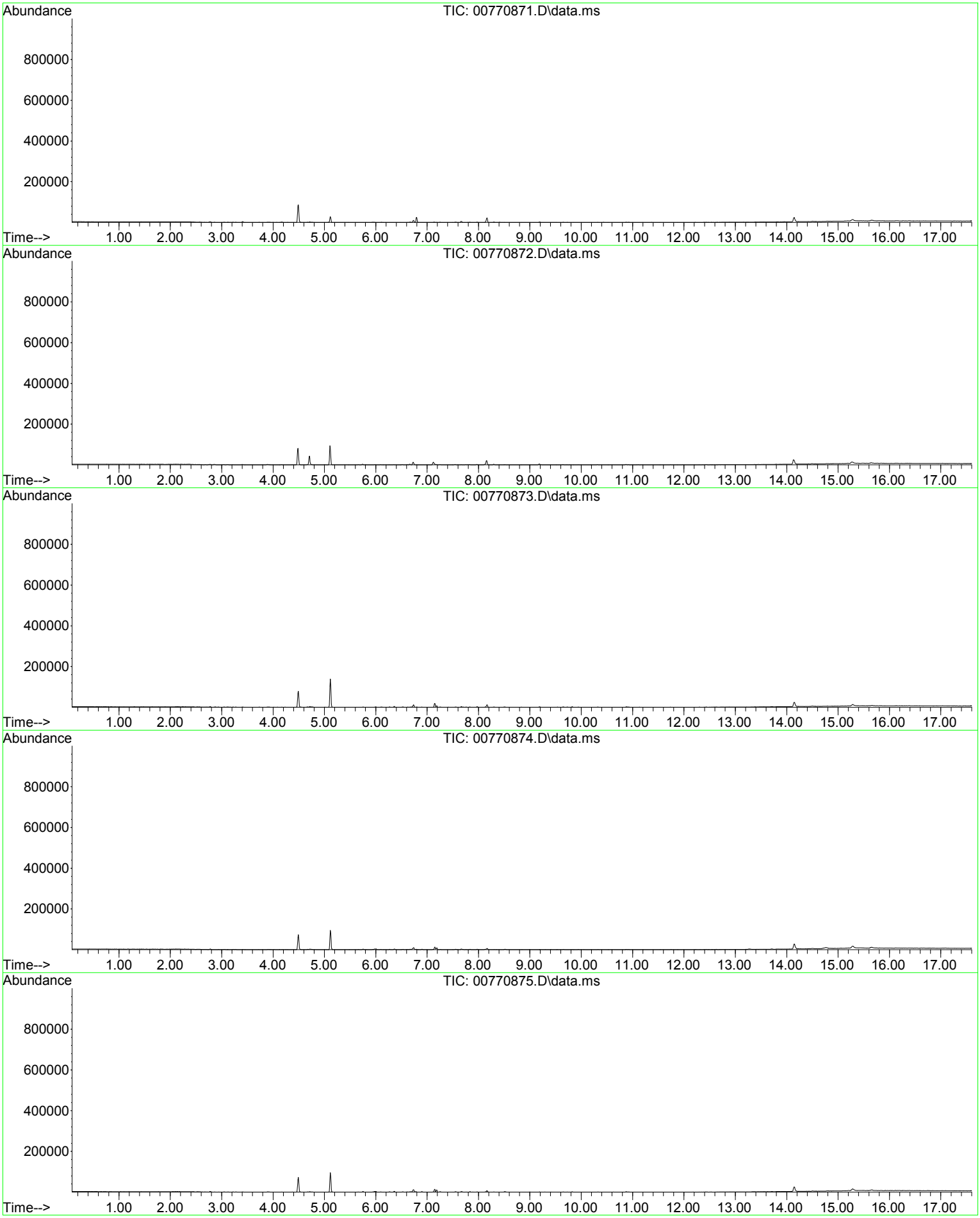
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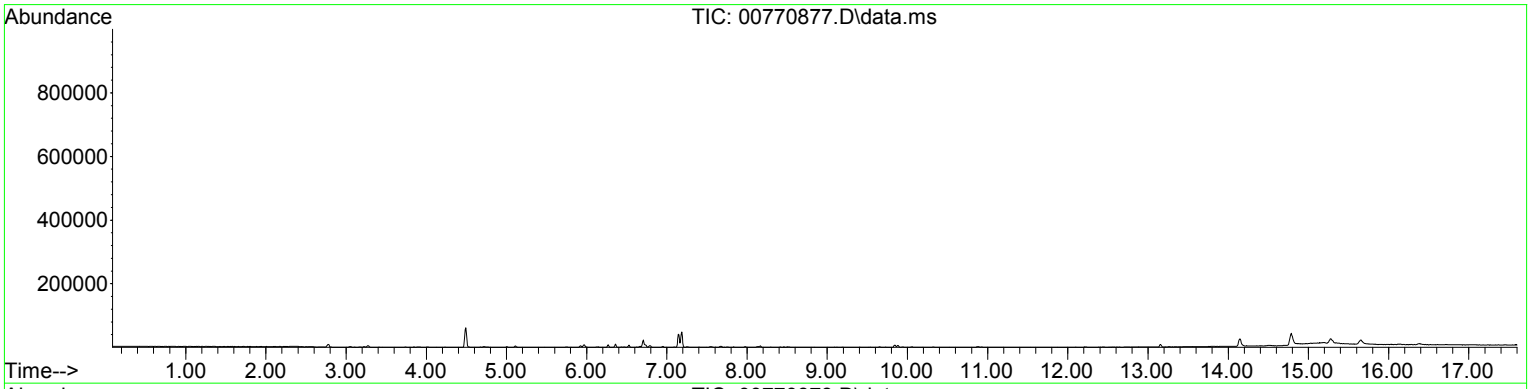
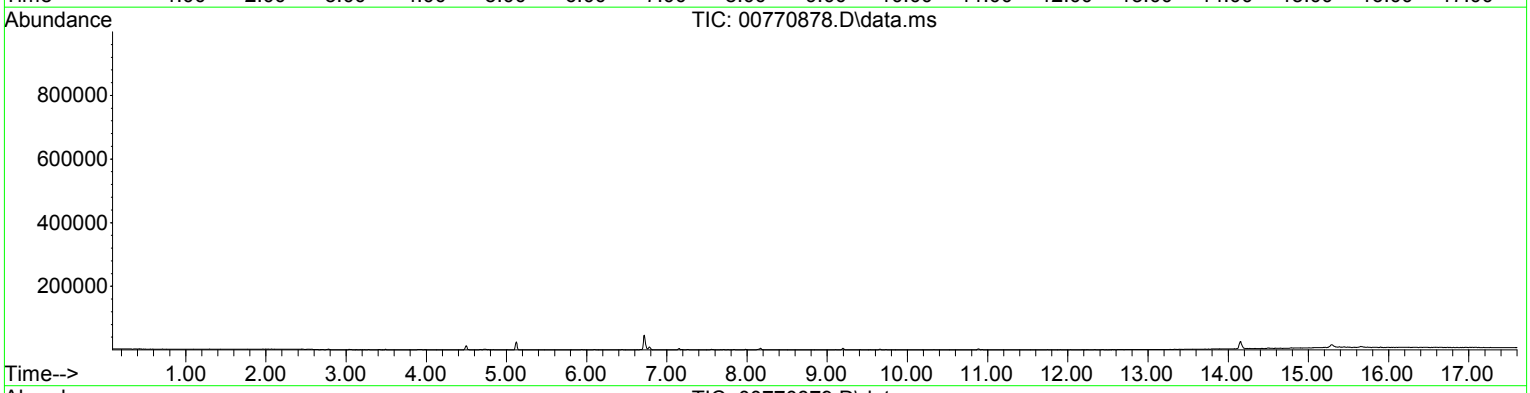
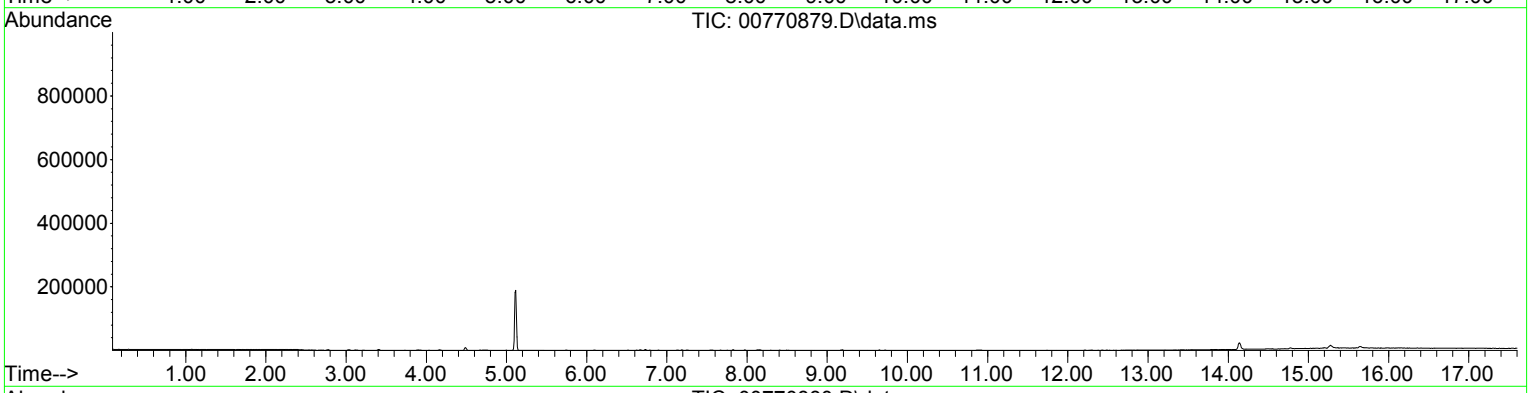
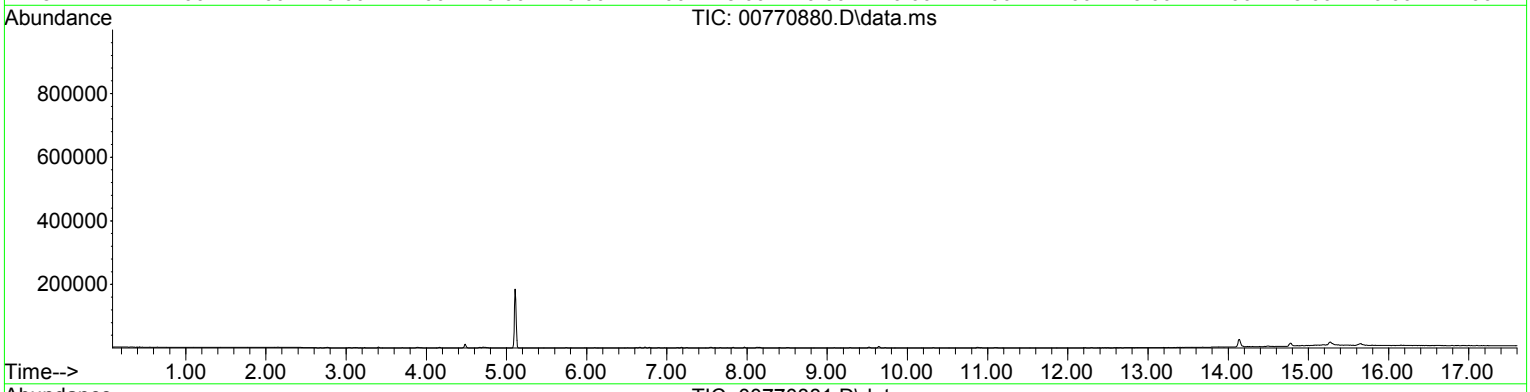
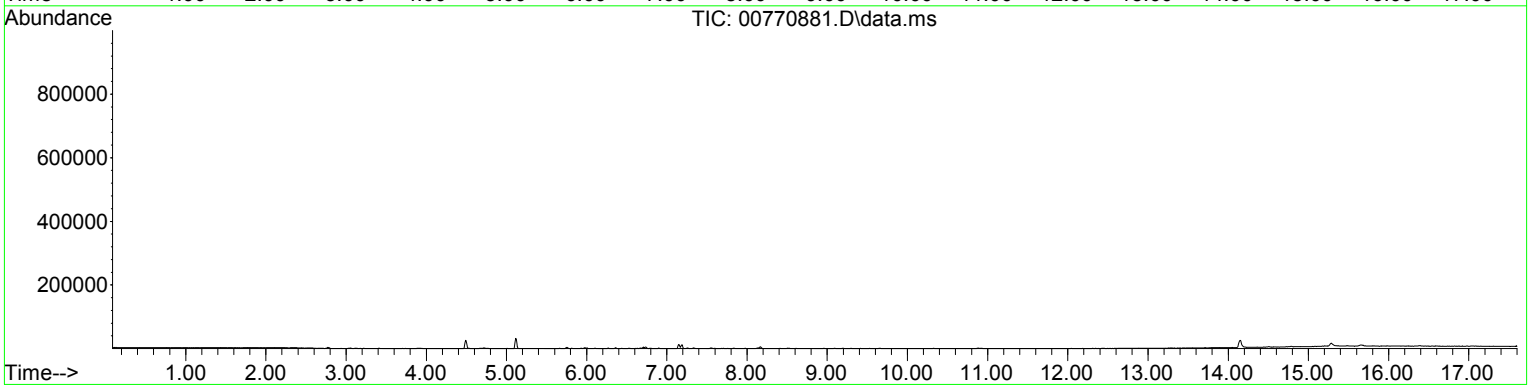
In Numerical Order



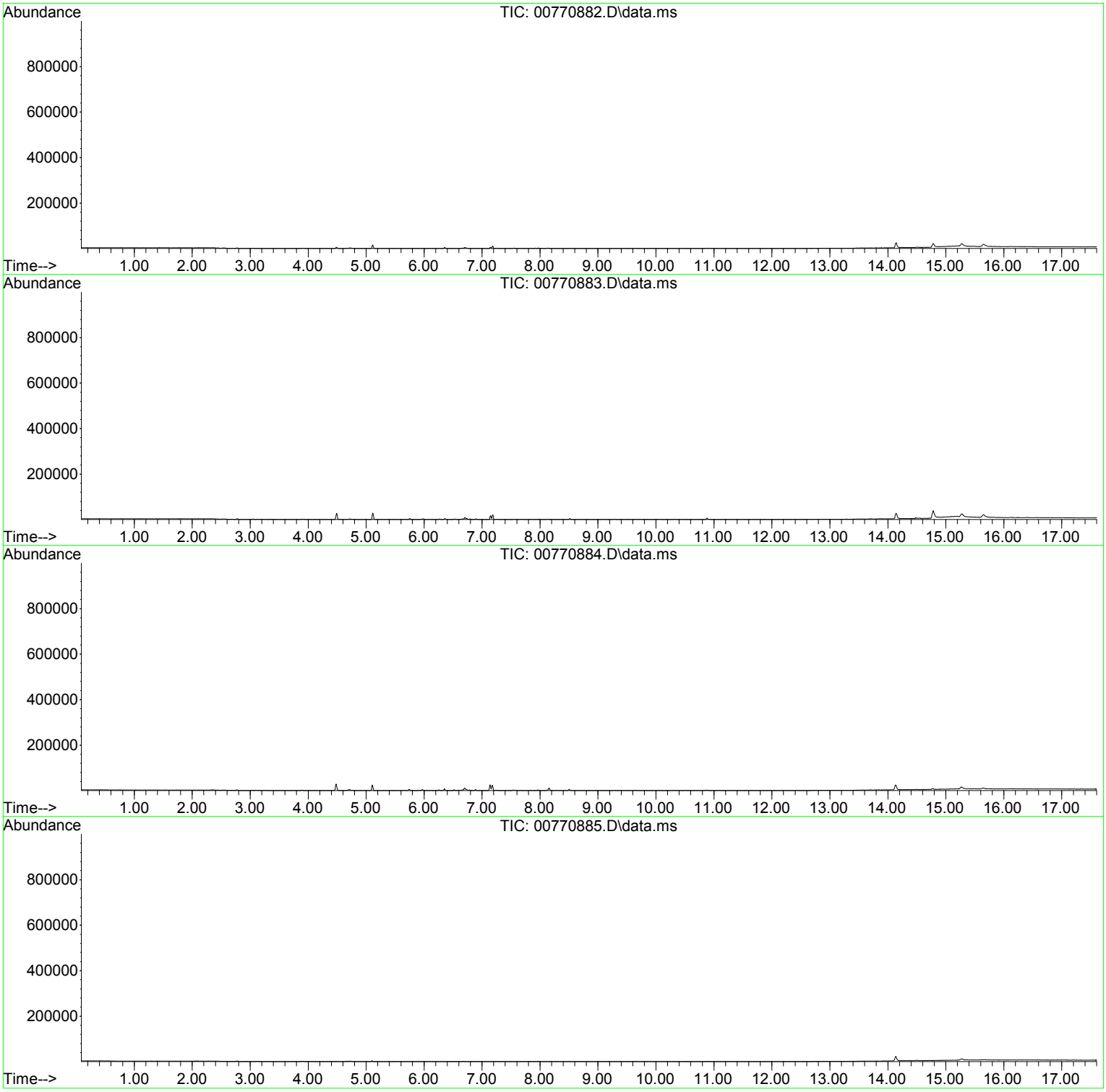








TICS - 01536
In Numerical Order



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APPENDIX H

ANALYTICAL DATA VALIDATION DISCUSSION

Introduction

This appendix provides an overview of the SWCA's post analyses review of the Eurofins/Calscience (Calscience), San Antonio River Authority (SARA), and Amplified Geochemical Imaging, LLC (AGI) analytical data set. In general, the data are considered valid for the intended purpose of assessing the baseline of sediment quality, stormwater runoff quality, surface water (under base flow conditions) and passive diffusion samplers (PDS) at a screening level for Comal and San Marcos Springs. Analyses with any associated laboratory issues are listed herein.

Worth noting in this assessment are the detection of plasticizer compounds such as bis(2-ethylhexyl) phthalate (DEHP) and other phthalate compounds. While it is possible these compounds were introduced post-sample collection from either sampling equipment, or laboratory equipment, they should not be completely dismissed.

Based on analysis of 2013 laboratory data, the EAA concluded that three compounds detected in sediment samples may have been laboratory artifacts. The compounds were DEHP, di-n-octyl phthalate, and di-n-butyl phthalate. The EAA noted in the 2013 *Edwards Aquifer Habitat Conservation Plan Expanded Water Quality Report* that as the data set grows, additional conclusions could be drawn. The 2014 laboratory analyses of sediment samples did not detect di-n-octyl phthalate or di-n-butyl phthalate. However, DEHP was detected in three of the sediment samples in 2014 (HSM320, HSM330, and HSM350). DEHP was also detected in the three of the 2015 sediment samples (HSM340, HSM350, and HSM360).

DEHP was not detected in the laboratory method blank or trip blank, and a different laboratory and sampling equipment was used by SWCA. Therefore, it appears DEHP is present within sediment samples in the middle reaches of the San Marcos Spring complex. Future analyses may help better understand the possible presence of DEHP within sediments in both Comal and San Marcos Spring complexes.

Analytical results are discussed by analytical laboratory sample data group number, and by sample event type and date. Each event (surface water/base flow, stormwater, PDS, or sediment) is discussed by sample data group with sample names and date outlined for each event in the beginning of the discussion.

A key to sample names is provided below:

Key to Sample Names

H CS 1 10

H=HCP
CS=Comal Springs (**SM**=San Marcos Springs)
1=Sample Type (1=Surface Water, 2=Storm, 3=Sediment, 4=PDS)
10=Sample Location
Field Duplicates are identified with the prefix FD followed by the sample identification described above. Trip Blank samples are denoted with the prefix "TB" followed by a sequential number. Equipment Blank samples are denoted with the prefix "EB" followed by a sequential number.

Corrective Action Comments

The two following bulleted items describe corrective actions from 2014 that were effective in at reducing problems:

- TPH was consistently detected in PDS Trip Blanks from AGI. AGI had provided an annual supply of PDS. SWCA returned unused PDS and requested separate, new batches of PDS for the December 2014 and each individual 2015 sampling event.

- Calscience packaged three VOA vials within a tight zip-lock bag within a bubble wrap pouch. Frequently, some of the VOA vials broke during return shipping. During the last two sampling events of 2014 and all events of 2015, SWCA individually wrapped the VOA vials as opposed to having the three vials packaged together.

Analytical Data Review Summary for HCP samples collected in 2015.

Data Group Numbers **(HCP surface water/base flow samples collected March 16, 2015, and March 25, 2015, Comal and San Marcos springs):**

15-03-1281-1 (HCS 110)
15-03-1281-2 (HCS 120)
15-03-1281-3 (HCS 130)
15-03-1281-4 (HCS 140)
15-03-1281-5 (HCS 160)
15-03-1281-6 (FDHCS 120)
15-03-1281-7 (Trip Blank 02)

15-03-2020-1 (HSM 110)
15-03-2020-2 (HSM 120)
15-03-2020-3 (HSM 130)
15-03-2020-4 (HSM 140)
15-03-2020-5 (HSM 150)
15-03-2020-6 (HSM 160)
15-03-2020-7 (HSM 170)
15-03-2020-8 (FDHSM110)
15-03-2020-9 (Trip Blank 04)

General Comments

Although some analytical issues are noted for the data group, unless otherwise noted in the detailed discussion, the data are considered valid for the purposes of the investigation. pH values are collected in the field at the time of sample collection and are listed in the field parameters for each sample event. As such, the laboratory pH values which are flagged for hold time exceedances are not used for sample assessment purposes.

Trip Blanks

There were no detections in the trip blanks associated with this sample set.

QA/QC Discussion – Comal and San Marcos Springs Surface/Base Flow Samples (Sampled March 16, 2015 and March 25, 2015)

Issues associated with work order 15-03-1281

Magnesium was detected in the Method Blank associated with all of the Comal surface samples at a level of 0.00760 J mg/L. The detected concentration is below the Reporting Limit, but above the Method Detection Limit. It was therefore "J" flagged. Due to the low concentration and lack of concerns with magnesium concentrations in the subject samples, the results are accepted.

Method EPA 365.1 (Batch No. 150323LO1) – Recovery of matrix spike (MS) and matrix spike duplicates (MSD) were outside of control limits due to suspected matrix interference for total phosphorous. The associated Laboratory Control Sample (LCS) was in control; therefore, the results are accepted.

Method SM 5310 B (Batch No. F0326DOCS1) – Recovery of the MSD compound was outside of control limits due to suspected matrix interference for dissolved organic carbon (DOC). The associated Laboratory Control Sample (LCS) was in control; therefore, the results are accepted.

Method EPA 6010B (Batch No. 150330SA2) - For analytes calcium, magnesium, sodium, and silicon, spike recovery and relative percent difference (RPD) control limits do not apply—resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. Results are accepted.

Method EPA 6020 (Batch No. 150319SA1) – Recovery of the MS and MSD were outside of control limits due to suspected matrix interference for aluminum. The associated LCS was in control; therefore, the results are accepted. The recovery of the pulse digestion spike was also out of controls for aluminum due to suspected matrix interference. The result was biased high, the result is accepted.

Issues associated with work order 15-03-2020

Magnesium was detected in the Method Blank at a level of 0.0449 J mg/L. The detected concentration is below the Reporting Limit, but above the Method Detection Limit. It was therefore "J" flagged. Due to the low concentration and lack of concerns with magnesium concentrations in the subject samples, the results are accepted.

Method EPA 6010B (Batch No. 150327SA4A) - For analytes calcium, magnesium, and silicon, spike recovery and RPD control limits do not apply—resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. Results are accepted.

Data Group Numbers **(HCP surface water/base flow samples collected September 9 and 17, 2015, Comal and San Marcos springs):**

15-09-0733-1 (HCS 110)
15-09-0733-2 (HCS 120)
15-09-0733-3 (FDHCS 120)
15-09-0733-4 (HCS 130)
15-09-0733-5 (HCS 140)
15-09-0733-6 (HCS 160)
15-09-0733-7 (Trip Blank 11)

15-09-1440-1 (HSM 110)
15-09-1440-2 (FDHSM 110)
15-09-1440-3 (HSM 120)
15-09-1440-4 (HSM 130)
15-09-1440-5 (HSM 140)
15-09-1440-6 (HCS 150)
15-09-1440-7 (HSM 160)
15-09-1440-8 (HSM 170)
15-09-1440-9 (Trip Blank 12)

General Comments

Although some analytical issues are noted for the data group, unless otherwise noted in the detailed discussion, the data are considered valid for the purposes of the investigation. pH values are collected in the field at the time of sample collection and are listed in the field parameters for each sample event. As such, the laboratory pH values which are flagged for hold time exceedances are not used for sample assessment purposes.

Trip Blank (Comal and San Marcos)

Trip Blank (TB11) associated with this sample set had a detection of 0.25 J ug/L for toluene. This constituent was not detected in the subject samples.

QA/QC Discussion – Comal and San Marcos Springs Surface/Base Flow Samples (Sampled September 9 and 17, 2015)

Issues associated with work order 15-09-0733

Calcium, magnesium, potassium and sodium were detected in the Method Blank associated with all of the Comal surface samples. The detected concentrations are below the Reporting Limits, but above the Method Detection Limits. They were therefore "J" flagged. Due to the low concentration and lack of concerns with these analyte concentrations in the subject samples, the results are accepted.

Method EPA 300.0 (Batch No. 150910S01) – Recovery of the MS and MSD were outside of control limits due to suspected matrix interference for chloride and sulfate. The associated LCSs were in control; therefore, the results are accepted.

Method EPA 365.1 (Batch No. 150915S01) – Recovery of the MS and MSD were outside of control limits due to suspected matrix interference for total phosphorous. The associated LCS was in control; therefore, the results are accepted.

Method EPA 6010B (Batch No. 150911SA5) - For analytes calcium, magnesium, and silicon, spike recovery and relative percent difference (RPD) control limits do not apply—resulting from the parameter

concentration in the sample exceeding the spike concentration by a factor of four or greater. Results are accepted.

Method EPA 8141A (Batch No. 150911L03) – LCS and LCSD percent recoveries were out of control for merphos. This compound was not detected in the subjected samples. The results could be biased high; therefore, the results are accepted.

Method 1694 - Caffeine analysis was subcontracted to ALS Environmental by Calscience. The subcontracted laboratory received less than optimal sample volume which resulted in elevated detection limits. In the future, adequate sample volume will be provided to ALS Environmental by Calscience.

Issues associated with work order 15-09-1440

Magnesium was detected in the Method Blank associated with all of the San Marcos surface samples. The detected concentration, 0.00711 mg/L, is below the Reporting Limit, but above the Method Detection Limit. The result is therefore "J" flagged. Due to the low concentration and lack of concerns with this analyte in the subject samples, the results are accepted.

Method EPA 300.0 (Batch No. 150918S01) – Recovery of the MS and MSD were outside of control limits due to suspected matrix interference for nitrate and sulfate. The associated LCSs were in control; therefore, the results are accepted.

Method EPA 365.1 (Batch No. 151002S01) – Recovery of the MS and MSD were outside of control limits due to suspected matrix interference for nitrate and sulfate. The associated LCSs were in control; therefore, the results are accepted.

Method EPA 6010B (Batch No. 150922SA6A) - For analytes calcium, magnesium, and silicon, spike recovery and relative percent difference (RPD) control limits do not apply—resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. Results are accepted.

Method EPA 6020 (Batch No. 150922SA3A) - For manganese, spike recovery and relative percent difference (RPD) control limits do not apply to the MS, MSD or pulse digestion spike samples—resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. Results are accepted.

Method EPA 6010B (Batch No, 150922LA6F) – The LCS percent recovery was out of range for silicon. Results may be biased low but are accepted.

Method EPA 8141A (Batch No. 150124L03) – LCS and LCSD percent recoveries were out of control for merphos. This compound was not detected in the subjected samples. The results could be biased high; therefore, the results are accepted.

Data Group Numbers **(HCP stormwater samples collected January 22-23, 2014, at Comal Springs):**

15-01-1404-1 (HCS 210 Lead)
15-01-1404-2 (HCS 240 Lead)
15-01-1404-3 (HCS 250 Lead)
15-01-1404-4 (HCS 260 Lead)
15-01-1404-5 (HCS 270 Lead)
15-01-1511-1 (HCS 210 Peak)
15-01-1511-2 (HCS 240 Peak)
15-01-1511-3 (HCS 250 Peak)
15-01-1511-4 (HCS 260 Peak)
15-01-1511-5 (HCS 270 Peak)
15-01-1511-6 (HCS 210 Trail)
15-01-1511-7 (HCS 240 Trail)
15-01-1511-8 (HCS 250 Trail)
15-01-1511-9 (HCS 260 Trail)
15-01-1511-10 (HCS 270 Trail)
15-01-1511-11 (FDHCS 260 Trail)
15-01-1511-12 (FDHCS 270 Trail)
15-01-1511-13 (Trip Blank 1)

General Comments

Although some analytical issues are noted for the data group, unless otherwise noted in the detailed discussion, the data are considered valid for the purposes of the investigation. pH values are collected in the field at the time of sample collection and are listed in the field parameters for each sample event. As such, the laboratory pH values which are flagged for hold time exceedances are not used for sample assessment purposes.

All samples were collected outside of laboratory operating hours. Therefore all *E. coli* samples were analyzed outside of their hold times. The initial blank for *E. coli* was also analyzed outside of hold times for batch E_COLI_QUANTITRAY-41482 associated with samples HCS 250 Trail, HCS 260 Trail, HCS 270 Trail, FDHCS 260 Trail and FDHCS 270 Trail.

Trip Blank

There were no detections in the trip blank associated with these samples.

QA/QC Discussion – Comal Springs Stormwater Samples (Sampled January 22-23, 2015)

Issues associated with all January 2015 stormwater samples

Magnesium was detected at a concentration of 0.0522 J mg/L in batch 150126L6FF within the Method Blank, which is below the Reporting Limit, but above the Method Detection Limit. It was therefore "J" flagged. Due to the low concentration and lack of issues with magnesium concentrations in the subject samples, the results are accepted.

Method EPA 6010B (Batch No. 150126SA6) - For analytes calcium and magnesium, spike recovery and RPD control limits do not apply—resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. Results are accepted.

Method EPA 6010B (Batch No. 150126L6FF) – Percent recovery of silicon in the LCS was outside of the control limit and results may be biased low. Due to lack of issues with silicon concentrations in the subject samples, the results are accepted.

Issues specific to work order 15-01-1404

Method EPA 365.1 (Batch No. 150202SO1) – Recovery of the MS and MSD were outside of control limits due to suspected matrix interference for total phosphorous. The associated LCS was in control; therefore, the results are accepted.

Method EPA 8141A (Batch No. 150124L03) – LCS and LCSD percent recoveries were out of control for merphos. This compound was not detected in the subjected samples. The results could be biased high; therefore, the results are accepted.

Issues specific to individual samples

HCS 260 Trail Method EPA 8082 – Recovery of the surrogate compounds was outside of control limits. Results may be biased high; however, no compounds were detected in the sample and the method blank surrogate recovery was in control. The results are accepted.

Data Group Numbers **(HCP stormwater samples collected May 5-6, 2015, at San Marcos springs):**

15-05-0402-1 (HSM 210 Lead)
15-05-0402-2 (HSM 230 Lead)
15-05-0402-3 (HSM 231 Lead)
15-05-0402-4 (HSM 240 Lead)
15-05-0402-5 (HSM 250 Lead)
15-05-0402-6 (HSM 260 Lead)
15-05-0402-7 (HSM 270 Lead)
15-05-0402-8 (HSM 210 Peak)
15-05-0402-9 (HSM 230 Peak)
15-05-0402-10 (HSM 231 Peak)
15-05-0402-11 (HSM 240 Peak)
15-05-0402-12 (HSM 250 Peak)
15-05-0402-13 (HSM 260 Peak)
15-05-0402-14 (HSM 270 Peak)
15-05-0402-15 (Trip Blank 06)
15-05-0402-16 (HSM 210 Trail)
15-05-0402-17 (HSM 230 Trail)
15-05-0402-18 (HSM 231 Trail)
15-05-0402-19 (HSM 240 Trail)
15-05-0402-20 (HSM 250 Trail)
15-05-0402-21 (HSM 260 Trail)
15-05-0402-22 (HSM 270 Trail)
15-05-0402-23 (FDHSM 210 Trail)
15-05-0402-24 (FDHSM 230 Trail)
15-05-0402-25 (FDHSM 231 Trail)

General Comments

Although some analytical issues are noted for the data group, unless otherwise noted in the detailed discussion, the data are considered valid for the purposes of the investigation. pH values are collected in the field at the time of sample collection and are listed in the field parameters for each sample event. As such, the laboratory pH values which are flagged for hold time exceedances are not used for sample assessment purposes. All samples were collected outside of laboratory operating hours. Therefore all *E. coli* samples were analyzed outside of their hold times.

Trip Blanks

There were no detections in the trip blank associated with these samples.

QA/QC Discussion – San Marcos Springs Stormwater Samples (Sampled May 5 and 6, 2015)

Issues associated with specific batches of stormwater samples

Method EPA 6010B (Batch No. 150507LA6A) - Magnesium was detected in the Method Blank at a level of 0.00476 J mg/L. The detected concentration is below the Reporting Limit, but above the Method Detection Limit. It was therefore "J" flagged. Due to the low concentration and lack of concerns with magnesium concentrations in the subject samples, the results are accepted.

Method EPA 365.1 (Batch No. 150520S01) – Recovery of the MS and MSD compound was outside of control limits due to suspected matrix interference for total phosphorous. The associated LCS was in control; therefore, the results are accepted.

Method EPA 6010B (Batch No. 150507SA5) - For analytes calcium, magnesium, and silicon, spike recovery and RPD control limits do not apply—resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. Results are accepted.

Method EPA 6010B (Batch No. 150507SA6) - For analytes calcium, magnesium, and silicon, spike recovery and RPD control limits do not apply—resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. Results are accepted. Recovery of the MS and MSD compound was out of control due to suspected matrix interference for strontium. The results may be biased high; however, the LCS was in control and the results are accepted.

Method EPA 6020 (Batch No. 150507SA4) – The MS/MSD percent difference was out of control due to suspected matrix interference for antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, thallium, and zinc. Recovery of the MS compound was outside of control limits due to suspected matrix interference for cadmium. The associated LCS was in control; therefore, the results are accepted.

Samples HSM 270 Trail, FDHSM 210 Trail, FDHSM 230 Trail, and FDHSM 231 Trail Method EPA 6020 (Batch No. 150507LA6F) - Arsenic was detected in the Method Blank at a level of 0.000469 J mg/L. The detected concentration is below the Reporting Limit, but above the Method Detection Limit. It was therefore "J" flagged. The detections in these results are similar to the levels detected in the Lead and Peak samples. However, none of the other trail samples had arsenic detections. These results may be biased high but are within the range of results in the unaffected samples. Results are accepted.

Method SM 6020 (Batch No. 150507SA6) – Recovery of the MSD compound was outside of control limits due to suspected matrix interference for antimony, arsenic, and cadmium. The associated LCS was in control; therefore, the results are accepted.

Method EPA 8260B (Batch No. 150515S020) – The MS/MSD percent difference was out of control due to suspected matrix interference for methyl-t-butyl ether (MTBE). MS and MSD percent recoveries both in acceptable range, therefor the results are accepted.

Method EPA 8260B (Batch No. 150518S007) – Recovery of the MSD compound was outside of control limits due to suspected matrix interference for carbon tetrachloride and 1,1-dichloroethene. The associated LCS was in control; therefore, the results are accepted.

Issues specific to individual samples

HSM 240 Peak Method EPA 8081A – Recovery of one surrogate compound was outside of control limits. Results may be biased low. The method blank surrogate recovery was in control. The results are accepted.

HSM 230 Lead Method EPA 8141A – Recovery of the surrogate compound was outside of control limits. Results may be biased high; however, no compounds were detected in the sample and the method blank surrogate recovery was in control. The results are accepted.

Data Group Numbers **(HCP stormwater samples collected October 23, 2015, at Comal Springs and San Marcos Springs):**

15-10-1856-1 (HCS 210 Lead)
15-10-1856-2 (HCS 240 Lead)
15-10-1856-3 (HCS 250 Lead)
15-10-1856-4 (HCS 260 Lead)
15-10-1856-5 (HCS 270 Lead)
15-10-1856-7 (HCS 210 Peak)
15-10-1856-8 (HCS 240 Peak)
15-10-1856-9 (HCS 250 Peak)
15-10-1995-1(HCS 260 Peak)
15-10-1995-2 (HCS 270 Peak)
15-10-1995-3 (HCS 210 Trail)
15-10-1995-4 (HCS 240 Trail)
15-10-1995-5 (HCS 250 Trail)
15-10-1995-6 (HCS 260 Trail)
15-10-1995-7 (HCS 270 Trail)
15-10-1995-8 (FDHCS 260 Trail)
15-10-1995-9 (FDHCS 270 Trail)

15-10-1856-6 (Trip Blank 14)
15-10-1995-10 (Trip Blank 15)

15-10-1995-21 (HSM 210 Lead)
15-10-1995-22 (HSM 230 Lead)
15-10-1995-23 (HSM 231 Lead)
15-10-1995-24 (HSM 240 Lead)
15-10-1995-25 (HSM 250 Lead)
15-10-1995-26 (HSM 260 Lead)
15-10-1995-27 (HSM 270 Lead)
15-10-1995-28 (HSM 210 Peak)
15-10-1995-29 (HSM 230 Peak)
15-10-1995-30 (HSM 231 Peak)
15-10-1995-31 (HSM 240 Peak)
15-10-1995-32 (HSM 250 Peak)
15-10-1995-33 (HSM 260 Peak)
15-10-1995-34 (HSM 270 Peak)
15-10-1995-11 (HSM 210 Trail)
15-10-1995-12 (HSM 230 Trail)
15-10-1995-13 (HSM 231 Trail)
15-10-1995-14 (HSM 240 Trail)
15-10-1995-15 (HSM 250 Trail)
15-10-1995-16 (HSM 260 Trail)
15-10-1995-17 (HSM 270 Trail)
15-10-1995-18 (FDHSM 210 Trail)
15-10-1995-19 (FDHSM 230 Trail)
15-10-1995-20 (FDHSM 231 Trail)

General Comments

Although some analytical issues are noted for the data group, unless otherwise noted in the detailed discussion, the data are considered valid for the purposes of the investigation. pH values are collected in the field at the time of sample collection and are listed in the field parameters for each sample event. As such, the laboratory pH values which are flagged for hold time exceedances are not used for sample assessment purposes. Because sample collection occurred late in the day on a Friday, samples could not be packaged and delivered to FedEx in time for a Saturday delivery. Therefore, samples associated with work order 15-10-1995 were held on ice at SWCA over the weekend and shipped to the laboratory Monday, October 26, 2015. This resulted in the nitrate samples from this work order being received outside of hold times.

The majority of samples were collected outside of laboratory operating hours. Therefore many *E. coli* samples were analyzed outside of their hold times. In addition, *E. coli* sample HSM230 Lead contained limited air space and samples HCS260 Peak, HSM231 Lead and FDHSM230 Trail contained limited sample volume.

High sample concentrations of caffeine required that samples HCS210 Lead and HCS250 Lead be diluted for effective analysis.

Trip Blank

There were no detections in the trip blanks associated with these samples.

QA/QC Discussion – Comal and San Marcos Springs Stormwater Samples (Sampled October 23, 2015)

Issues specific to work order 15-10-1856

Method EPA 365.1 (Batch No. 151109S02) – Recovery of the MS and MSD were outside of control limits due to suspected matrix interference for total phosphorous. The associated LCS was in control; therefore, the results are accepted.

Method SM 5310 B (Batch No. F1105TOCS1) – Recovery of the MS and MSD were outside of control limits due to suspected matrix interference for total organic carbon. The associated LCS was in control; therefore, the results are accepted.

Method EPA 6010B (Batch No. 151026SA4A) - For analytes calcium, magnesium, and silicon spike recovery and RPD control limits do not apply—resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. Results are accepted.

Method EPA 6020 (Batch No. 151026SA1) – The MS/MSD RPD was out of control for nickel due to suspected matrix interference. The MS and MSD were each within control. Recovery of the MS for aluminum was below the control due to suspected matrix interference. Spike recovery and RPD control limits do not apply for manganese for the MS, MSD or pulse digestion spike samples due to the sample concentration exceeding the spike concentration by a factor of four or greater. The results are accepted.

Issues specific to work order 15-10-1995

Method 6010B (Batch No. 151028LA8F)- Calcium was detected in the Method Blank at a level of 0.0244 J mg/L. The detected concentration is below the Reporting Limit, but above the Method Detection Limit. It was therefore “J” flagged. Due to the low concentration and lack of concerns with calcium concentrations in the subject samples, the results are accepted.

Method 6020 (Batch No. 151028LA5F)- Zinc was detected in the Method Blank at a level of 0.00185 J mg/L. The detected concentration is below the Reporting Limit, but above the Method Detection Limit. It was therefore “J” flagged. Due to the low concentration and lack of concerns with zinc concentrations in the subject samples, the results are accepted.

Method EPA 300.0 (Batch No. 151031S01) – Recovery of the MS and MSD were outside of control limits due to suspected matrix interference for sulfate. The associated LCS was in control; therefore, the results are accepted.

Method EPA 365.1 (Batch No. 151110S01) – Recovery of the MS and MSD were outside of control limits due to suspected matrix interference for total phosphorous. The associated LCS was in control; therefore, the results are accepted.

Method EPA 365.1 (Batch No. 151110S02) – Recovery of the MS and MSD were outside of control limits due to suspected matrix interference for total phosphorous. The associated LCS was in control; therefore, the results are accepted.

Method SM 5310 B (Batch No. F1109TOCS2) – Recovery of the MS and the MS/MSD RPD were outside of control limits due to suspected matrix interference for total organic carbon. The associated LCS was in control; therefore, the results are accepted.

Method EPA 6010B (Batch No. 151028SA8) – For analytes calcium, magnesium, and silicon spike recovery and RPD control limits do not apply—resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. Results are accepted.

Method EPA 6010B (Batch No. 151028SA9) - For analytes calcium, magnesium, and silicon spike recovery and RPD control limits do not apply—resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. Results are accepted.

Method EPA 6020 (Batch No. 151028SA4) – Recovery of the MS and MSD were outside of control limits due to suspected matrix interference for zinc. The associated LCS was in control; therefore, the results are accepted.

Method EPA 6020 (Batch No. 151026SA1) – The MS/MSD RPD was out of control for selenium due to suspected matrix interference. The MS and MSD were each within control. The results are accepted.

Method EPA 8260B (Batch No. 151030S009) – Recovery of the MS and MSD were outside of control limits due to suspected matrix interference for vinyl chloride. The associated LCS was in control; therefore, the results are accepted.

Method EPA 6020 (Batch No. 151028SA4) – Recovery of the pulse digestion spike was outside of control limits due to suspected matrix interference for selenium. All detections were below the reporting limit and two orders of magnitude lower than the regulatory standard used for result comparison (MCL); therefor, the results are accepted.

Method EPA 6020 (Batch No. 151028SA5) – Recovery of the pulse digestion spike was outside of control limits due to suspected matrix interference for selenium. All detections were below the reporting limit and two orders of magnitude lower than the regulatory standard used for result comparison (MCL); therefor, the results are accepted.

Issues specific to individual samples

HCS 260 Trail Method EPA 8082 – Recovery of a surrogate compound was above the acceptance limit. Results may be biased high; however, no compounds were detected in the sample and the method blank surrogate recovery was in control. The results are accepted.

HSM 260 Trail Method EPA 8151A – Recovery of the surrogate compound was above the acceptance limit. Results may be biased high; however, no compounds were detected in the sample and the method blank surrogate recovery was in control. The results are accepted.

FDHSM 210 Trail Method EPA 8151A – Recovery of the surrogate compound was above the acceptance limit. Results may be biased high; however, no compounds were detected in the sample and the method blank surrogate recovery was in control. The results are accepted.

HSM 270 Peak Method EPA 8151A – Recovery of the surrogate compound was above the acceptance limit. Results may be biased high; however, no compounds were detected in the sample and the method blank surrogate recovery was in control. The results are accepted.

Data Group Numbers **(HCP sediment samples collected June 4 and 5, 2015, at Comal springs):**

15-06-0463-1 (HCS 310)
15-06-0463-2 (HCS 320)
15-06-0463-3 (HCS 330)
15-06-0463-4 (HCS 340)
15-06-0463-5 (HCS 360)
15-06-0463-6 (FDHCS 360)
15-06-0463-7 (Trip Blank 07)

15-06-0567-1 (Equipment Blank 02)

15-06-0567-1 (HSM 310)
15-06-0567-2 (HSM 320)
15-06-0567-3 (HSM 330)
15-06-0567-4 (HSM 340)
15-06-0567-5 (HSM 350)
15-06-0567-6 (HSM 360)
15-06-0567-7 (HSM 370)
15-06-0567-8 (FDHSM370)
15-06-0567-9 (Trip Blank 08)
15-06-0567-10 (Equipment Blank 01)

General Comments

Although some analytical issues are noted for the data group, unless otherwise noted in the detailed discussion, the data are considered valid for the purposes of the investigation. Samples were collected in glass jars using stainless steel trowels. The water depth and sediment availability at HCS 330 made collection with a trowel impossible. The HCS 330 sample was collected in a plastic sleeve using a hand core sampler and extruded into the glass sample jars.

Trip Blanks

There were no detections in the trip blanks associated with these samples.

Equipment Blanks

Two equipment blanks were collected. One sample was collected by pouring ASTM Type II Reagent Grade water over a decontaminated trowel. The second sample was collected by pouring ASTM Type II Reagent Grade water through a new sample tube. There were several compounds detected in both of the two equipment blanks. The detections are similar between each blank despite the differences in sampling equipment. SWCA suspects that the detected compounds were present in the ASTM Type II Reagent Grade water used. The plastic sample tube was a new, single-use tube from the box and was therefore not decontaminated, eliminating decontamination procedures as the source of interference. Many of the detections were "J" flagged and substantially lower than the levels detected in the sediment samples. Therefore, the equipment blank analyses results are not anticipated to have affected the usability of results of the sediment sample analyses. The equipment blank detections are summarized in Table 1.

Table 1. Detections in sediment equipment blanks June 2015

Sample	Associated Equipment	Date Collected	Calcium mg/L	Magnesium mg/L	Sodium mg/L	Barium mg/L	Copper mg/L	Nickel mg/L	Zinc mg/L	Manganese mg/L	Chloroform µg/L	Toluene µg/L	Carbon, Total Organic mg/L	Phosphorous, Total mg/L
EB01	Trowel	6/5/2015	0.0548J	0.0451B,J	0.150J	<0.0000986	0.00104	0.000299J	0.000853J	0.00158J	23	0.27J	0.55	<0.020
EB02	Sample tube	6/10/2015	<0.0118	0.0131B,J	<0.103	0.000130	0.00155	0.000425	0.00129	0.000253	26	0.45J	0.78	0.020J

QA/QC Discussion – Comal and San Marcos Springs Sediment Samples (Sampled June 4, and 5, 2015)

Issues associated with work order 15-06-0463

Method EPA 300.0 (Batch No. 150610S01P) – Recovery of the MS and MSD compound was outside of control limits due to suspected matrix interference for fluoride. The associated LCS was in control; therefore, the results are accepted.

Method EPA 6010B (Batch No. 150610S04) - For analytes calcium, magnesium, potassium and silicon, spike recovery and RPD control limits do not apply—resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. Results are accepted.

Method EPA 6020 (Batch No. 150608S01) - For analytes barium, aluminum, iron and manganese, spike recovery and RPD control limits do not apply—resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. Results are accepted.

Method SM 8270C (Batch No. 150613S07) – Recovery of the MS and MSD compound was outside of control limits due to suspected matrix interference for 1,4-dichlorobenzene and 1,2,4-trichlorobenzene. The associated LCS was in control; therefore, the results are accepted.

Method SM 8260B (Batch No. 150613S007) – Recovery of the MS and/or MSD compound was outside of control limits due to suspected matrix interference for benzene, bromodichloromethane, carbon disulfide, chloroform, 1,1-dichloroethene, c-1,2-dichloroethene, t-1,2-dichloroethene, 1,2-dichloropropane, c-1,3-dichloropropene, methylene chloride, toluene, 1,1,1-trichloroethane and trichloroethene. The associated LCS was in control; therefore, the results are accepted.

Method EPA 6020 (Batch No. 150608L01) – LCS recovery percentage was in the Marginal Exceedance (ME) control limit range for iron. This method allows for one ME result; therefore, results are accepted.

Method EPA 8260B (Batch No. 150607L024) – LCS recovery percentage was in the Marginal Exceedance (ME) control limit range for 1,2-dichloroethane. This method allows for one ME result; therefore, results are accepted.

Issues associated with work order 15-06-0463

Method EPA365.1 (Batch No. 150613S01) - Recovery of the MS and MSD compound was out of control due to suspected matrix interference for total phosphorous. The results may be biased high; however, the LCS was in control, and the results are accepted.

Method EPA 6010B (Batch No. 150611S09A) - For analytes calcium, magnesium, and silicon, spike recovery and RPD control limits do not apply—resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. Recovery of the MS and/or MSD compound was out of control due to suspected matrix interference for potassium, sodium, and strontium. The results may be biased high; however, the LCS was in control, and the results are accepted.

Method EPA 6010B (Batch No. 150615SA4) - For analytes calcium, magnesium, sodium and silicon, spike recovery and RPD control limits do not apply—resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. Results are accepted.

Method EPA 6020 (Batch No. 150612S01) - For analytes barium, aluminum, iron, and manganese spike recovery and RPD control limits do not apply—resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. Results are accepted.

Method EPA 8260B (Batch No. 150608S026) – Recovery of the MS and MSD compound was outside of control limits due to suspected matrix interference for 1,2-dibromoethane, 1,2-dichloroethane, p/m-xylene, and o-xylene. The associated LCS was in control; therefore, the results are accepted.

Method EPA 8260B (Batch No. 150608S015) – Recovery of the MS and/or MSD compound was outside of control limits due to suspected matrix interference for benzene, chlorobenzene, 1,2-dibromoethane, 1,2-dichloroethane, toluene, p/m-xylene, and o-xylene. The associated LCS was in control; therefore, the results are accepted.

Issues specific to individual samples

EB01 Method 6010B - Magnesium was detected in the Method Blank at a level of 0.0372 J mg/L. The detected concentration is below the Reporting Limit, but above the Method Detection Limit. It was therefore "J" flagged. Due to the low concentration and lack of concerns with magnesium concentrations in the subject samples, the results are accepted.

HSM 350 Method EPA 8081A – Recovery of the surrogate compounds were outside of control limits. Results may be biased high; however, no compounds were detected in the sample and the method blank surrogate recovery was in control. The results are accepted.

Data Group Numbers **(HCP PDS deployed February 3 – February 17, 2015, at Comal and San Marcos springs):**

HCS 410 ***00755224***	HSM 410 ***00755230***
HCS 420 ***00755225***	HSM 420 ***00755231***
HCS 430 ***00755226***	HSM 430 ***00755232***
HCS 440 ***00755227***	FDHSM 430 ***00755233***
FDHCS 440 ***00755228***	HSM 440 ***00755234***
HCS 460 ***00755228***	HSM 450 ***00755235***
	HSM 460 ***00755236***
Trip Blank 02 ***00755228***	HSM 470 ***00755237***

General Comments

Although some analytical issues are noted for the data group, unless otherwise noted in the detailed discussion, the data are considered valid for the purposes of the investigation. PDSs were deployed from February 3, 2015, through February 17, 2015. The initial method blank data was accidentally overwritten by the laboratory and not available for inclusion in the laboratory report. However, there was no evidence of system contamination observed in any other quality control sample; the results are accepted.

Trip Blanks

There were no detections in the trip blank associated with these samples.

Equipment Blanks

Equipment blanks were not practicable due to sampler type.

Data Group Numbers **(HCP PDS deployed April 7 – April 21, 2015, at Comal and San Marcos springs):**

HCS 410 ***00757309***	HSM 410 ***00757315***
HCS 420 ***00757310***	HSM 420 ***00757316***
HCS 430 ***00757311***	HSM 430 ***00757317***
HCS 440 ***00757312***	FDHSM 430 ***00757318***
FDHCS 440 ***00757313***	HSM 440 ***00757319***
HCS 460 ***00757314***	HSM 450 ***00757320***
	HSM 460 ***00757321***
Trip Blank 05 ***00757323***	HSM 470 ***00757322***

General Comments

Although some analytical issues are noted for the data group, unless otherwise noted in the detailed discussion, the data are considered valid for the purposes of the investigation. PDSs were deployed from April 7, 2015, through April 21, 2015.

Trip Blanks

There were no detections in the trip blank associated with these samples.

Equipment Blanks

Equipment blanks were not practicable due to sampler type.

Data Group Numbers **(HCP PDS deployed June 1 – June 15, 2015, at Comal and San Marcos springs):**

HCS 410 ***00759936***	HSM 410 ***00759941***
HCS 420 ***00759937***	HSM 420 ***00759942***
HCS 430 ***00759935***	HSM 430 ***00759943***
HCS 440 ***00759938***	FDHSM 430 ***00759944***
FDHCS 440 ***00759939***	HSM 440 ***00759945***
HCS 460 ***00759940***	HSM 450 ***00759946***
	HSM 460 ***00759947***
Trip Blank 09 ***00759949***	HSM 470 ***00759948***

General Comments

Although some analytical issues are noted for the data group, unless otherwise noted in the detailed discussion, the data are considered valid for the purposes of the investigation. PDSs were deployed from June 1, 2015, through June 15, 2015.

Trip Blanks

There were no detections in the trip blank associated with these samples.

Equipment Blanks

Equipment blanks were not practicable due to sampler type.

Data Group Numbers **(HCP PDS deployed August 13 – August 27, 2015, at Comal and San Marcos springs):**

HCS 410 ***00767201***	HSM 410 ***00767206***
HCS 420 ***00767202***	HSM 420 ***00767207***
HCS 430 ***00767200***	HSM 430 ***00767208***
HCS 440 ***00767203***	FDHSM 430 ***00767209***
FDHCS 440 ***00767204***	HSM 440 ***00767210***
HCS 460 ***00767205***	HSM 450 ***00767211***
	HSM 460 ***00767212***
Trip Blank 10 ***00767214***	HSM 470 ***00767213***

General Comments

Although some analytical issues are noted for the data group, unless otherwise noted in the detailed discussion, the data are considered valid for the purposes of the investigation. PDSs were deployed from August 13, 2015, through August 27, 2015.

Samples were analyzed on two different instruments, one of which had an elevated TPH background. The TPH detections in samples HCS 440, FDHCS 440, HCS 460, and HSM 440 may be biased high. An unused sampler analyzed on this instrument was found to have 0.65 μg of TPH.

Trip Blanks

There were no detections in the trip blank associated with these samples.

Equipment Blanks

Equipment blanks were not practicable due to sampler type.

Data Group Numbers **(HCP PDS deployed October 6 – October 20, 2015, at Comal and San Marcos springs):**

HCS 410 ***00770685***	HSM 410 ***00770691***
HCS 420 ***00770686***	HSM 420 ***00770692***
HCS 430 ***00770687***	HSM 430 ***00770693***
HCS 440 ***00770688***	FDHSM 430 ***00770694***
FDHCS 440 ***00770689***	HSM 440 ***00770695***
HCS 460 ***00770690***	HSM 450 ***00770696***
	HSM 460 ***00770697***
Trip Blank 13 ***00770699***	HSM 470 ***00770698***

General Comments

Although some analytical issues are noted for the data group, unless otherwise noted in the detailed discussion, the data are considered valid for the purposes of the investigation. PDSs were deployed from October 6, 2015, through October 20, 2015.

Trip Blanks

There were no detections in the trip blank associated with these samples.

Equipment Blanks

Equipment blanks were not practicable due to sampler type.

Data Group Numbers **(HCP PDS deployed December 1 – December 15, 2015, at Comal and San Marcos springs):**

HCS 410 ***00770871***	HSM 410 ***00770877***
HCS 420 ***00770872***	HSM 420 ***00770878***
HCS 430 ***00770873***	HSM 430 ***00770879***
HCS 440 ***00770874***	FDHSM 430 ***00770880***
FDHCS 440 ***00770875***	HSM 440 ***00770881***
HCS 460 ***00770876***	HSM 450 ***00770882***
	HSM 460 ***00770883***
Trip Blank 16 ***00770885***	HSM 470 ***00770884***

General Comments

Although some analytical issues are noted for the data group, unless otherwise noted in the detailed discussion, the data are considered valid for the purposes of the investigation. PDSs were deployed from December 1, 2015, through December 15, 2015. The PDS from HCS460 was not recovered.

Trip Blanks

There were no detections in the trip blank associated with these samples.

Equipment Blanks

Equipment blanks were not practicable due to sampler type.

Relative Percent Differences between Field Samples and their duplicates

Relative Percent Differences (RPD) values for parent samples and associated duplicate samples are provided in Table 2 below. In general, the RPD are less than 20% indicating parent and duplicate sample constituent concentrations are similar. Some differences observed in water samples may be the result of concentrations that vary naturally due to stream flow. Because the streams sampled are constantly flowing, constituent concentrations can change or fluctuate during the time period in which multiple sample bottles, which are all part of the same sample, are filled. Although sediment sample cores were collected in close proximity to one another, soil concentrations may vary spatially, which can cause differences between parent and duplicate sample constituent concentrations.

The differences observed do not show wide variations where a parent sample concentration exceeds a regulatory threshold or comparison value and a duplicate does not, or vice versa.

It should be noted that the RPDs between parent and duplicate field samples not only show differences between the parent and duplicate samples but also include differences inherent to laboratory procedures when the two separate samples are analyzed. Therefore, the laboratory RPDs contribute to the parent and field duplicate constituent concentration RPDs.

Table 2. Relative Percent Differences between Field Samples and their duplicates

Sample Location	Date Collected	Analyte	Units	Field Sample	Qualifiers	Duplicate	Qualifiers	RPD
Surface Water								
HCS 120	3/16/2015	Chloride	mg/L	17		17		0.00%
		Fluoride	mg/L	0.23		0.22		4.44%
		Nitrate	mg/L	1.7		1.7		0.00%
		Sulfate	mg/L	29		28		3.51%
		Calcium	mg/L	87.2		85.6		1.85%
		Magnesium	mg/L	16.3	B	16.2	B	0.62%
		Potassium	mg/L	1.65		1.67		1.20%
		Silicon	mg/L	4.44		4.44		0.00%
		Sodium	mg/L	13.4		13		3.03%
		Strontium	mg/L	0.69		0.668		3.24%
		Aluminum	mg/L	<0.00331		0.00459	J	32.41%
		Antimony	mg/L	<0.0000995		0.000166	J	50.09%
		Barium	mg/L	0.0555		0.0562		1.25%
		Chromium	mg/L	<0.000402		0.000426	J	5.80%
		Copper	mg/L	0.000538	J	0.000783	J	37.09%
		Iron	mg/L	0.046	J	0.0555		18.72%
		Lead	mg/L	<0.0000898		0.000117	J	26.31%
		Manganese	mg/L	0.00178		0.00607		109.30%
		Nickel	mg/L	0.00201		0.00225		11.27%
		Selenium	mg/L	0.000334	J	0.000414	J	21.39%
		Zinc	mg/L	0.0239		0.0391		48.25%
		Bicarbonate	mg/L	235		235		0.00%
		Total Alkalinity	mg/L	235		235		0.00%
		Total dissolved solids	mg/L	350		335		4.38%
		pH	pH units	7.36	BV,BU	7.41	BV,BU	0.68%
		Total Kjeldahl Nitrogen	mg/L	0.42	J	0.35	J	18.18%
		DOC	mg/L	2.9		2.1		32.00%
		TOC	mg/L	11		10		9.52%
		E. coli	MPN/ 100 mL	47		51		8.16%

Sample Location	Date Collected	Analyte	Units	Field Sample	Qualifiers	Duplicate	Qualifiers	RPD
HCS 120	9/9/2015	Caffeine	ng/L	<4		16		120.00%
		Bromide	mg/L	0.1		0.096	J	4.08%
		Chloride	mg/L	17		17		0.00%
		Fluoride	mg/L	0.23		0.22		4.44%
		Nitrate	mg/L	1.8		1.8		0.00%
		Sulfate	mg/L	25		25		0.00%
		Calcium	mg/L	82.2	B	81.3	B	1.10%
		Magnesium	mg/L	16.3	B	15.4	B	5.68%
		Potassium	mg/L	2.3	B	2.04	B	11.98%
		Silicon	mg/L	5.55		5.2		6.51%
		Sodium	mg/L	12.7	B	12.2	B	4.02%
		Strontium	mg/L	0.67		0.665		0.75%
		Aluminum	mg/L	0.00699	J	0.00954	J	30.85%
		Arsenic	mg/L	0.000388	J	<0.000386		0.52%
		Barium	mg/L	0.0549		0.0537		2.21%
		Chromium	mg/L	0.000524	J	0.000482	J	8.35%
		Copper	mg/L	0.00504		0.00078	J	146.39%
		Iron	mg/L	0.0364	J	0.0406	J	10.91%
		Manganese	mg/L	0.00082	J	0.00064	J	24.66%
		Nickel	mg/L	0.00182		0.00187		2.71%
		Selenium	mg/L	0.000521	J	0.000932	J	56.57%
		Thallium	mg/L	0.000121	J	<0.000101		18.02%
		Zinc	mg/L	0.00984		0.00773		24.02%
		Bicarbonate	mg/L	221		212		4.16%
		Total Alkalinity	mg/L	221		212		4.16%
		Total dissolved solids	mg/L	355		340		4.32%
		pH	pH units	7.23	BV,BU	7.25	BV,BU	0.28%
		DOC	mg/L	12		11		8.70%
		TOC	mg/L	8		5.7		33.58%
		E. coli	MPN/ 100 mL	67		54		21.49%

Sample Location	Date Collected	Analyte	Units	Field Sample	Qualifiers	Duplicate	Qualifiers	RPD
HSM 110	3/25/2015	Caffeine	ng/L	16		10		46.15%
		Bromide	mg/L	0.16		0.15		6.45%
		Chloride	mg/L	24		24		0.00%
		Fluoride	mg/L	0.23		0.23		0.00%
		Nitrate	mg/L	0.36		0.36		0.00%
		Sulfate	mg/L	33		33		0.00%
		Phosphorous, total	mg/L	<0.02		0.022	J	9.52%
		Calcium	mg/L	93.9		87.4		7.17%
		Magnesium	mg/L	18	B	20.1	B	11.02%
		Potassium	mg/L	1.31		1.75		28.76%
		Silicon	mg/L	3.63		3.59		1.11%
		Sodium	mg/L	12.7		15.3		18.57%
		Strontium	mg/L	0.568		0.688		19.11%
		Barium	mg/L	0.0409		0.0429		4.77%
		Copper	mg/L	0.000788	J	0.000673	J	15.74%
		Iron	mg/L	0.0411	J	0.0485	J	16.52%
		Manganese	mg/L	0.0222		0.022		0.90%
		Nickel	mg/L	0.00193		0.00203		5.05%
		Selenium	mg/L	0.00031	J	<0.000168		59.41%
		Zinc	mg/L	0.00287	J	<0.000479		142.79%
		Bicarbonate	mg/L	244		253		3.62%
		Total Alkalinity	mg/L	244		253		3.62%
		Total dissolved solids	mg/L	365		385		5.33%
		Total suspended solids	mg/L	5.9		9		41.61%
		pH	pH units	7.29	BV,BU	7.57	BV,BU	3.77%
		Total Kjeldahl Nitrogen	mg/L	0.42	J	0.28	J	40.00%
		DOC	mg/L	1.9		3.1		48.00%
		TOC	mg/L	1.4		4.6		106.67%
		E. coli	MPN/ 100 mL	1		9		160.00%
		E. coli	MPN/ 100 mL	45		75		50.00%

Sample Location	Date Collected	Analyte	Units	Field Sample	Qualifiers	Duplicate	Qualifiers	RPD
HSM110	9/17/2015	Caffeine	ng/L	19		13		37.50%
		Bromide	mg/L	0.17		0.18		5.71%
		Chloride	mg/L	29		29		0.00%
		Fluoride	mg/L	0.28		0.27		3.64%
		Nitrate	mg/L	0.56		0.59		5.22%
		Sulfate	mg/L	36		36		0.00%
		Phosphorous, total	mg/L	0.038	J	0.039	J	2.60%
		Calcium	mg/L	94.8		91.2		3.87%
		Magnesium	mg/L	20.1	B	19.4	B	3.54%
		Potassium	mg/L	2.18		2.08		4.69%
		Silicon	mg/L	5.53		5.33		3.68%
		Sodium	mg/L	17.8		17.1		4.01%
		Strontium	mg/L	0.756		0.725		4.19%
		Barium	mg/L	0.0407		0.0394		3.25%
		Copper	mg/L	0.00175	J	0.00216	J	20.97%
		Manganese	mg/L	0.283		0.282		0.35%
		Nickel	mg/L	0.00176	J	0.00168	J	4.65%
		Bicarbonate	mg/L	266		271		1.86%
		Total Alkalinity	mg/L	266		271		1.86%
		Total dissolved solids	mg/L	420		400		4.88%
		Total suspended solids	mg/L	4.5		4.6		2.20%
		pH	pH units	7.03	BV,BU	7.1	BV,BU	0.99%
		Total Kjeldahl Nitrogen	mg/L	0.28	J	0.35	J	22.22%
		DOC	mg/L	1.1		1.2		8.70%
		TOC	mg/L	1.4		1.4		0.00%
		E. coli	MPN/ 100 mL	45		75		50.00%

Sample Location	Date Collected	Analyte	Units	Field Sample	Qualifiers	Duplicate	Qualifiers	RPD
Storm Water								
HCS 260 Trail	1/23/2015	Caffeine	ng/L	110		67		48.59%
		Bromide	mg/L	0.077	J	0.073	J	5.33%
		Chloride	mg/L	12		12		0.00%
		Fluoride	mg/L	0.2		0.19		5.13%
		Nitrate	mg/L	1.2		1.2		0.00%
		Sulfate	mg/L	25		25		0.00%
		Phosphorous, total	mg/L	0.11		0.1		9.52%
		Calcium	mg/L	57.6		56		2.82%
		Magnesium	mg/L	8.87	B	8.74	B	1.48%
		Potassium	mg/L	3.91		3.82		2.33%
		Silicon	mg/L	3.52		3.68		4.44%
		Sodium	mg/L	10.2		10		1.98%
		Strontium	mg/L	0.409		0.401		1.98%
		Aluminum	mg/L	0.0224	J	0.188		157.41%
		Antimony	mg/L	0.000118	J	0.000104	J	12.61%
		Arsenic	mg/L	0.0014		0.00134		4.38%
		Barium	mg/L	0.0471		0.0466		1.07%
		Chromium	mg/L	<0.000402		0.000525	J	26.54%
		Copper	mg/L	0.00142		0.00141		0.71%
		Iron	mg/L	0.0678		0.129		62.20%
		Lead	mg/L	<0.0000898		0.00011	J	20.22%
		Manganese	mg/L	0.00767		0.00662		14.70%
		Nickel	mg/L	0.00191		0.00171		11.05%
		Selenium	mg/L	0.000207	J	0.00018	J	13.95%
		Zinc	mg/L	0.00978		0.0135		31.96%
		Bicarbonate	mg/L	155		157		1.28%
		Total Alkalinity	mg/L	155		157		1.28%
		Total dissolved solids	mg/L	280		400		35.29%
		Total suspended solids	mg/L	182		89		68.63%
		pH	pH units	7.75	BV,BU	7.71	BV,BU	0.52%
		Total Kjeldahl Nitrogen	mg/L	1		0.77		25.99%
		DOC	mg/L	4.7		5.6		17.48%
		TOC	mg/L	11		9.5		14.63%
		E. coli	MPN/100 mL	2300	H	3400	H	38.60%

Sample Location	Date Collected	Analyte	Units	Field Sample	Qualifiers	Duplicate	Qualifiers	RPD
HCS 260 Trail	10/23/2015	Aluminum	mg/L	0.00338	J	0.00574	J	51.75%
		Barium	mg/L	0.0535		0.0529		1.13%
		Bicarbonate	mg/L	219		220		0.46%
		Bromide	mg/L	0.099	J	0.1		1.01%
		Caffeine	ng/L	80		56		35.29%
		Calcium	mg/L	79.4	B	78	B	1.78%
		Chloride	mg/L	17		17		0.00%
		Copper	mg/L	0.00056	J	0.000267	J	70.86%
		E. coli	MPN/100 mL	20000	H	24000	H	18.18%
		Fluoride	mg/L	0.19		0.2		5.13%
		Iron	mg/L	0.0502		0.0559		10.74%
		Magnesium	mg/L	16.6		16.5		0.60%
		Manganese	mg/L	0.00299		<0.000139		182.23%
		Nickel	mg/L	0.00152		0.00152		0.00%
		Nitrate	mg/L	1.7	BU	1.7	BU	0.00%
		pH	pH units	7.66	BV,BU	7.68	BV,BU	0.26%
		Phosphorous, total	mg/L	0.04	J	0.039	J	2.53%
		Potassium	mg/L	1.87		1.83		2.16%
		Selenium	mg/L	0.00027	J	0.000327	J	19.10%
		Silicon	mg/L	5.9		5.83		1.19%
		Sodium	mg/L	12.7		12.7		0.00%
		Strontium	mg/L	0.651		0.647		0.62%
		Sulfate	mg/L	30		30		0.00%
		Total Alkalinity	mg/L	219		220		0.46%
		Total dissolved solids	mg/L	275		285		3.57%
		Total Kjeldahl Nitrogen	mg/L	0.84		0.56		40.00%
		Total suspended solids	mg/L	5.7		2.8		68.24%
		Zinc	mg/L	0.00363	J	0.014		117.64%

Sample Location	Date Collected	Analyte	Units	Field Sample	Qualifiers	Duplicate	Qualifiers	RPD
HCS 270 Trail	1/23/2015	Caffeine	ng/L	100		65		42.42%
		Bromide	mg/L	0.082	J	0.089	J	8.19%
		Chloride	mg/L	12		12		0.00%
		Fluoride	mg/L	0.2		0.18		10.53%
		Nitrate	mg/L	1.2		1.2		0.00%
		Sulfate	mg/L	24		23		4.26%
		Phosphorous, total	mg/L	0.096		0.12		22.22%
		Calcium	mg/L	57.8		55.2		4.60%
		Magnesium	mg/L	8.83	B	8.93	B	1.13%
		Potassium	mg/L	4.06		3.86		5.05%
		Silicon	mg/L	3.48		3.64		4.49%
		Sodium	mg/L	10.1		9.77		3.32%
		Strontium	mg/L	0.414		0.399		3.69%
		Aluminum	mg/L	<0.00331		0.0847		184.96%
		Antimony	mg/L	0.00011	J	0.000108	J	1.83%
		Arsenic	mg/L	0.00109		0.00121		10.43%
		Barium	mg/L	0.0498		0.0467		6.42%
		Chromium	mg/L	<0.000402		0.000417	J	3.66%
		Copper	mg/L	0.00142		0.00186		26.83%
		Iron	mg/L	0.0535		0.0808		40.66%
		Manganese	mg/L	0.00408		0.00446		8.90%
		Nickel	mg/L	0.0018		0.00204		12.50%
		Selenium	mg/L	0.000171	J	0.000258	J	40.56%
		Zinc	mg/L	0.00605		0.0105		53.78%
		Bicarbonate	mg/L	152		154		1.31%
		Total Alkalinity	mg/L	152		154		1.31%
		Total dissolved solids	mg/L	265		275		3.70%
		Total suspended solids	mg/L	114		114		0.00%
		pH	pH units	7.78	BV,BU	7.77	BV,BU	0.13%
		Total Kjeldahl Nitrogen	mg/L	<0.28		0.56		66.67%
		DOC	mg/L	7		7.8		10.81%
		TOC	mg/L	7.4		8.2		10.26%
		E. coli	MPN/100 mL	4400	H	2500	H	55.07%

Sample Location	Date Collected	Analyte	Units	Field Sample	Qualifiers	Duplicate	Qualifiers	RPD
HSM 270 Trail	10/23/2015	Aluminum	mg/L	0.00724		0.00581	J	21.92%
		Barium	mg/L	0.0512		0.049		4.39%
		Bicarbonate	mg/L	206		206		0.00%
		Bromide	mg/L	0.088		0.089	J	1.13%
		Caffeine	ng/L	450		130		110.34%
		Calcium	mg/L	73.8		71.5	B	3.17%
		Chloride	mg/L	18		18		0.00%
		Copper	mg/L	0.000721		0.000496	J	36.98%
		E. coli	MPN/100 mL	20000		17000	H	16.22%
		Fluoride	mg/L	0.2		0.19		5.13%
		Iron	mg/L	0.0553		0.0502		9.67%
		Magnesium	mg/L	15.3		14.8		3.32%
		Manganese	mg/L	0.000998		0.000298	J	108.02%
		Nickel	mg/L	0.00145		0.00139		4.23%
		Nitrate	mg/L	1.6		1.6	BU	0.00%
		pH	pH units	7.68		7.69	BV,BU	0.13%
		Phosphorous, total	mg/L	0.05		0.038	J	27.27%
		Potassium	mg/L	2.04		1.99		2.48%
		Selenium	mg/L	0.00035		0.000318	J	9.58%
		Silicon	mg/L	5.52		5.29		4.26%
		Sodium	mg/L	13.1		12.8		2.32%
		Strontium	mg/L	0.605		0.593		2.00%
		Sulfate	mg/L	28		28		0.00%
		Total Alkalinity	mg/L	206		206		0.00%
		Total dissolved solids	mg/L	315		295		6.56%
		Total Kjeldahl Nitrogen	mg/L	0.98		0.84		15.38%
		Total suspended solids	mg/L	2.4		4.4		58.82%
		Zinc	mg/L	0.00559		0.0101		57.49%

Sample Location	Date Collected	Analyte	Units	Field Sample	Qualifiers	Duplicate	Qualifiers	RPD
HSM 210 Trail	5/6/2015	Caffeine	ng/L	13		14		7.41%
		Bromide	mg/L	0.14		0.16		13.33%
		Chloride	mg/L	26		25		3.92%
		Fluoride	mg/L	0.22		0.21		4.65%
		Nitrate	mg/L	0.41		0.41		0.00%
		Sulfate	mg/L	35		35		0.00%
		Phosphorous, total	mg/L	0.054		<0.02		91.89%
		Calcium	mg/L	90.1		91.7		1.76%
		Magnesium	mg/L	20.3		20.1	B	0.99%
		Potassium	mg/L	2.29		2.06		10.57%
		Silicon	mg/L	4.45		4.41		0.90%
		Sodium	mg/L	16.5		16.5		0.00%
		Strontium	mg/L	0.723		0.715		1.11%
		Aluminum	mg/L	0.00574	J	0.00347	J	49.29%
		Arsenic	mg/L	<0.000386		0.00124	B	105.04%
		Barium	mg/L	0.0362		0.0397		9.22%
		Copper	mg/L	0.000804	J	0.000945	J	16.12%
		Iron	mg/L	0.0724		0.0708		2.23%
		Manganese	mg/L	0.0184		0.0203		9.82%
		Nickel	mg/L	0.00239		0.00207		14.35%
		Selenium	mg/L	0.000394	J	0.000263	J	39.88%
		Zinc	mg/L	0.0106		0.011		3.70%
		p-Isopropyltoluene	ug/L	0.18	J	<0.16		11.76%
		Bicarbonate	mg/L	240		256		6.45%
		Total Alkalinity	mg/L	240		256		6.45%
		Total dissolved solids	mg/L	405		340		17.45%
		Total suspended solids	mg/L	2.3		3.8		49.18%
		pH	pH units	7.48	BV,BU	7.47	BV,BU	0.13%
		Total Kjeldahl Nitrogen	mg/L	0.56		0.56		0.00%
		DOC	mg/L	2.4	J	3		22.22%
		TOC	mg/L	0.46	J	3		146.82%
		E. coli	MPN/100 mL	270	H	330	H	20.00%

Sample Location	Date Collected	Analyte	Units	Field Sample	Qualifiers	Duplicate	Qualifiers	RPD
HSM 210 Trail	10/23/2015	Aluminum	mg/L	0.0057	J	0.00569	J	0.18%
		Barium	mg/L	0.0341		0.0347		1.74%
		Bicarbonate	mg/L	228		233		2.17%
		Bromide	mg/L	0.17		0.17		0.00%
		Caffeine	ng/L	2.4		5.7		81.48%
		Calcium	mg/L	78.6	B	80.4	B	2.26%
		Chloride	mg/L	27		27		0.00%
		Copper	mg/L	<0.000140		0.000179	J	24.45%
		E. coli	MPN/100 mL	450	H	180	H	85.71%
		Fluoride	mg/L	0.21		0.2		4.88%
		Iron	mg/L	0.0519		0.0609		15.96%
		Magnesium	mg/L	20		20.7		3.44%
		Manganese	mg/L	0.0865		0.0846		2.22%
		Nickel	mg/L	0.00157		0.00165		4.97%
		Nitrate	mg/L	0.61	BU	0.62	BU	1.63%
		pH	pH units	7.43	BV,BU	7.39	BV,BU	0.54%
		Phosphorous, total	mg/L	0.026	J	0.036	J	32.26%
		Potassium	mg/L	2.01		2.08		3.42%
		Selenium	mg/L	0.000261	J	<0.000168		43.36%
		Silicon	mg/L	5.31		5.45		2.60%
		Sodium	mg/L	15.4		15.8		2.56%
		Strontium	mg/L	0.658		0.675		2.55%
		Sulfate	mg/L	34		34		0.00%
		Total Alkalinity	mg/L	228		233		2.17%
		Total dissolved solids	mg/L	345		370		6.99%
		Total Kjeldahl Nitrogen	mg/L	0.56		0.42	J	28.57%
		Total suspended solids	mg/L	2		4.7		80.60%
		Zinc	mg/L	0.0193		0.00791		83.72%

Sample Location	Date Collected	Analyte	Units	Field Sample	Qualifiers	Duplicate	Qualifiers	RPD
HSM 230 Trail	5/6/2015	Caffeine	ng/L	290		340		15.87%
		Bromide	mg/L	0.076	J	0.079	J	3.87%
		Chloride	mg/L	17		17		0.00%
		Fluoride	mg/L	0.16		0.16		0.00%
		Nitrate	mg/L	1.5		1.5		0.00%
		Sulfate	mg/L	27		27		0.00%
		Phosphorous, total	mg/L	0.045	J	0.029	J	43.24%
		Calcium	mg/L	83.8		86.8		3.52%
		Magnesium	mg/L	12.1		12.5	B	3.25%
		Potassium	mg/L	2.52		2.05		20.57%
		Silicon	mg/L	4.01		4.11		2.46%
		Sodium	mg/L	12.4		12.9		3.95%
		Strontium	mg/L	0.404		0.411		1.72%
		Aluminum	mg/L	0.0119	J	0.0117	J	1.69%
		Antimony	mg/L	0.000248	J	0.000244	J	1.63%
		Arsenic	mg/L	<0.000386		0.000733	B,J	62.02%
		Barium	mg/L	0.0359		0.0387		7.51%
		Chromium	mg/L	0.00056	J	0.000634	J	12.40%
		Copper	mg/L	0.00229		0.00275		18.25%
		Iron	mg/L	0.0929		0.0758		20.27%
		Lead	mg/L	0.000122	J	0.000124	J	1.63%
		Manganese	mg/L	0.00719		0.00682		5.28%
		Nickel	mg/L	0.00234		0.00235		0.43%
		Selenium	mg/L	0.000308	J	0.000317	J	2.88%
		Zinc	mg/L	0.0308		0.0278		10.24%
		4,4-DDD	ug/L	0.038	J	<0.027		33.85%
		Bicarbonate	mg/L	199		198		0.50%
		Total Alkalinity	mg/L	199		198		0.50%
		Total dissolved solids	mg/L	325		200		47.62%
		Total suspended solids	mg/L	2.4		3.3		31.58%
		pH	pH units	7.35	BV,BU	7.48	BV,BU	1.75%
		Total Kjeldahl Nitrogen	mg/L	0.56		0.56		0.00%
		DOC	mg/L	2.6		6.6		86.96%
		TOC	mg/L	3.2		4		22.22%
		E. coli	MPN/100 mL	5200	H	4600	H	12.24%

Sample Location	Date Collected	Analyte	Units	Field Sample	Qualifiers	Duplicate	Qualifiers	RPD
HSM 230 Trail	10/23/2015	Aluminum	mg/L	0.00775	J	0.00881	J	12.80%
		Antimony	mg/L	0.000173	J	0.000143	J	18.99%
		Barium	mg/L	0.0357		0.0369		3.31%
		Bicarbonate	mg/L	228		222		2.67%
		Bromide	mg/L	0.1		0.11		9.52%
		Caffeine	ng/L	470		450		4.35%
		Calcium	mg/L	83.2	B	80.9	B	2.80%
		Chloride	mg/L	19		19		0.00%
		Copper	mg/L	0.00118		0.00151		24.54%
		E. coli	MPN/100 mL	73000	H	65000	H	11.59%
		Fluoride	mg/L	0.18		0.2		10.53%
		Iron	mg/L	0.0568		0.0529		7.11%
		Magnesium	mg/L	15.1		15.1		0.00%
		Manganese	mg/L	0.00236		0.00354		40.00%
		Nickel	mg/L	0.00192		0.00188		2.11%
		Nitrate	mg/L	1.5	BU	1.6	BU	6.45%
		pH	pH units	7.36	BV,BU	7.1	BV,BU	3.60%
		Phosphorous, total	mg/L	0.039	J	0.058		39.18%
		Potassium	mg/L	2.25		2.22		1.34%
		Selenium	mg/L	0.000374	J	0.00027	J	32.30%
		Silicon	mg/L	5.22		5.18		0.77%
		Sodium	mg/L	12.3		12.2		0.82%
		Strontium	mg/L	0.471		0.465		1.28%
		Sulfate	mg/L	30		30		0.00%
		Total Alkalinity	mg/L	228		222		2.67%
		Total dissolved solids	mg/L	290		310		6.67%
		Total Kjeldahl Nitrogen	mg/L	0.84		0.84		0.00%
		Total suspended solids	mg/L	<0.83		4		131.26%
		Zinc	mg/L	0.0401		0.00928		124.83%

Sample Location	Date Collected	Analyte	Units	Field Sample	Qualifiers	Duplicate	Qualifiers	RPD
HSM 231 Trail	5/6/2015	Caffeine	ng/L	25		25		0.00%
		Bromide	mg/L	0.094	J	0.097	J	3.14%
		Chloride	mg/L	19		19		0.00%
		Fluoride	mg/L	0.19		0.19		0.00%
		Nitrate	mg/L	1.2		1.2		0.00%
		Sulfate	mg/L	28		28		0.00%
		Phosphorous, total	mg/L	<0.02		0.042	J	70.97%
		Calcium	mg/L	98.7		97.2		1.53%
		Magnesium	mg/L	18.4		18.4	B	0.00%
		Potassium	mg/L	1.53		1.48		3.32%
		Silicon	mg/L	4.64		4.65		0.22%
		Sodium	mg/L	14		13.5		3.64%
		Strontium	mg/L	0.608		0.597		1.83%
		Aluminum	mg/L	0.00844	J	<0.00331		87.32%
		Arsenic	mg/L	<0.000386		0.000941	B,J	83.65%
		Barium	mg/L	0.0382		0.043		11.82%
		Chromium	mg/L	0.000402	J	<0.000402		0.00%
		Copper	mg/L	0.000596	J	0.00105		55.16%
		Iron	mg/L	0.0695		0.086		21.22%
		Lead	mg/L	<0.0000898		0.000146	J	47.67%
		Manganese	mg/L	0.00172		0.00175		1.73%
		Nickel	mg/L	0.00256		0.00225		12.89%
		Selenium	mg/L	0.000386	J	0.000319	J	19.01%
		Zinc	mg/L	0.018		0.0361		66.91%
		Bicarbonate	mg/L	252		255		1.18%
		Total Alkalinity	mg/L	252		255		1.18%
		Total dissolved solids	mg/L	385		255		40.63%
		Total suspended solids	mg/L	1.2		<0.83		36.45%
		pH	pH units	7.48	BV,BU	7.52	BV,BU	0.53%
		Total Kjeldahl Nitrogen	mg/L	0.84		0.56		40.00%
		DOC	mg/L	5		3		50.00%
		TOC	mg/L	4		2.5		46.15%
		E. coli	MPN/100 mL	280	H	330	H	16.39%

Sample Location	Date Collected	Analyte	Units	Field Sample	Qualifiers	Duplicate	Qualifiers	RPD
HSM 231 Trail	10/23/2015	Aluminum	mg/L	0.00682	J	0.00514	J	28.09%
		Barium	mg/L	0.0367		0.0374		1.89%
		Bicarbonate	mg/L	245		245		0.00%
		Bromide	mg/L	0.1		0.1		0.00%
		Caffeine	ng/L	19		15		23.53%
		Calcium	mg/L	87.7	B	86.2	B	1.73%
		Chloride	mg/L	18		18		0.00%
		Copper	mg/L	0.000193	J	<0.000140		31.83%
		E. coli	MPN/100 mL	1700	H	1700	H	0.00%
		Fluoride	mg/L	0.18		0.18		0.00%
		Iron	mg/L	0.055		0.0707		24.98%
		Magnesium	mg/L	18.6		18.2		2.17%
		Manganese	mg/L	0.000472	J	<0.000139		109.00%
		Nickel	mg/L	0.0017		0.00183		7.37%
		Nitrate	mg/L	1.3	BU	1.2	BU	8.00%
		pH	pH units	7.48	BV,BU	7.28	BV,BU	2.71%
		Phosphorous, total	mg/L	0.034	J	0.031	J	9.23%
		Potassium	mg/L	1.51		1.55		2.61%
		Selenium	mg/L	0.000309	J	0.000292	J	5.66%
		Silicon	mg/L	5.74		5.62		2.11%
		Sodium	mg/L	11.4		11.4		0.00%
		Strontium	mg/L	0.529		0.524		0.95%
		Sulfate	mg/L	25		25		0.00%
		TOC	mg/L	<0.24		7.4		187.43%
		Total Alkalinity	mg/L	245		245		0.00%
		Total dissolved solids	mg/L	235		295		22.64%
		Total Kjeldahl Nitrogen	mg/L	0.84		0.28	J	100.00%
		Total suspended solids	mg/L	<0.83		1.1		27.98%
		Zinc	mg/L	0.0136		0.0502		114.73%

Sample Location	Date Collected	Analyte	Units	Field Sample	Qualifiers	Duplicate	Qualifiers	RPD
Sediment								
HCS 360	6/4/2015	Chloride	mg/kg	22		22		0.00%
		Fluoride	mg/kg	3.1		3.2		3.17%
		Sulfate	mg/kg	49		68		32.48%
		Calcium	mg/kg	146000		165000		12.22%
		Magnesium	mg/kg	3060		3560		15.11%
		Potassium	mg/kg	2300		2580		11.48%
		Silicon	mg/kg	1410		1690		18.06%
		Sodium	mg/kg	207		193		7.00%
		Strontium	mg/kg	199		222		10.93%
		Aluminum	mg/kg	10800		11900		9.69%
		Arsenic	mg/kg	3.83		4.15		8.02%
		Barium	mg/kg	68.9		72.9		5.64%
		Chromium	mg/kg	16.1		18		11.14%
		Copper	mg/kg	14.3		16		11.22%
		Iron	mg/kg	9750		10700		9.29%
		Lead	mg/kg	23.9		26.2		9.18%
		Manganese	mg/kg	216		227		4.97%
		Nickel	mg/kg	17		18.4		7.91%
		Zinc	mg/kg	142		160		11.92%
		pH	pH units	7.35		7.41		0.81%
		TOC	mg/kg	53000		50000		5.83%
		Bicarbonate	mg/kg	580		590		1.71%
		Total Alkalinity	mg/kg	580		590		1.71%
		Total dissolved solids	mg/kg	3460		4320		22.11%
		Phosphorous, total	mg/kg	5.6		5.8		3.51%

Sample Location	Date Collected	Analyte	Units	Field Sample	Qualifiers	Duplicate	Qualifiers	RPD
HSM370	6/5/2015	Chloride	mg/kg	17	J	16	J	6.06%
		Fluoride	mg/kg	1.7		2		16.22%
		Nitrate	mg/kg	0.69	J	0.61	J	12.31%
		Sulfate	mg/kg	30		38		23.53%
		Calcium	mg/kg	339000		312000		8.29%
		Magnesium	mg/kg	4920		5780		16.07%
		Potassium	mg/kg	1860		2230		18.09%
		Silicon	mg/kg	1860		2050		9.72%
		Strontium	mg/kg	293		286		2.42%
		Aluminum	mg/kg	5760		8180		34.72%
		Arsenic	mg/kg	11		8.3		27.98%
		Barium	mg/kg	42.7		55.7		26.42%
		Beryllium	mg/kg	0.436	J	0.54	J	21.31%
		Cadmium	mg/kg	0.612	J	0.56	J	8.87%
		Chromium	mg/kg	11.6		14		18.75%
		Copper	mg/kg	8.3		8.41		1.32%
		Iron	mg/kg	15300		13800		10.31%
		Lead	mg/kg	17.9		19.6		9.07%
		Manganese	mg/kg	439		471		7.03%
		Nickel	mg/kg	18		14.9		18.84%
		Selenium	mg/kg	<0.451		0.67	J	39.07%
		Silver	mg/kg	0.282	J	<0.262		7.35%
		Zinc	mg/kg	42.6		43.5		2.09%
		Mercury	mg/kg	0.0166	J	0.0268	J	47.00%
		Acetone	ug/kg	14	J	<12		15.38%
		p-Isopropyltoluene	ug/kg	<1.1		1.4	J	24.00%
		Toluene	ug/kg	<0.89		2.2	J	84.79%
		2-Methylnaphthalene	mg/kg	0.15	J	<0.11		30.77%
		Di-n-Octyl Phthalate	mg/kg	0.48	J	<0.19		86.57%
		Fluoranthene	mg/kg	0.11	J	<0.11		0.00%
		pH	pH units	7.46		7.49		0.40%
		TOC	mg/kg	25000		22000		12.77%
		Bicarbonate	mg/kg	440		360		20.00%
		Total Alkalinity	mg/kg	440		360		20.00%
		Total dissolved solids	mg/kg	5500		7660		32.83%
		Phosphorous, total	mg/kg	3.1		3.5		12.12%

Sample Location	Date Collected	Analyte	Units	Field Sample	Qualifiers	Duplicate	Qualifiers	RPD
Passive Diffusion Sampling								
HCS 440	2/17/2015	Tetrachloroethene	µg	0.28		0.28		0.00%
		TPH	µg	0.61		0.76		21.90%
	4/21/2015	Tetrachloroethene	µg	0.41		0.37		10.26%
		TPH	µg	0.65		1.05		47.06%
	6/15/2015	Tetrachloroethene	µg	0.4		0.42		4.88%
		TPH	µg	0.72		<0.5		36.07%
	8/27/2015	Tetrachloroethene	µg	0.39		0.44		12.05%
		TPH	µg	1.23		1.44		15.73%
	10/20/2015	Tetrachloroethene	µg	0.47		0.46		2.15%
	12/15/2015	Tetrachloroethene	µg	0.38		0.39		2.63%
HSM 430	2/17/2015	Tetrachloroethene	µg	0.13		0.16		20.69%
		TPH	µg	1.27		0.99		24.78%
	4/21/2015	Tetrachloroethene	µg	0.8		0.72		10.53%
		Toluene	µg	<0.02		<0.02		0.00%
		TPH	µg	<0.5		0.54		7.69%
	6/15/2015	Tetrachloroethene	µg	1.98		2.35		17.09%
		TPH	µg	0.96		0.54		56.00%
	8/27/2015	Tetrachloroethene	µg	0.68		0.89		26.75%
	10/20/2015	Tetrachloroethene	µg	0.94		1.01		7.18%
	12/15/2015	Chloroform	µg	0.02		0.02		0.00%
		Tetrachloroethene	µg	0.81		0.76		6.37%

B - Analyte detected in the laboratory method blank at the quantity listed

BV,BU - Sample exceeded hold time

H - Sample exceeded hold time

J - Result above the method detection limit but below the reporting limit

Method detection limits or reporting limits were used to calculate RPD for results not detected above these limits.

APPENDIX I

SAMPLE RECORD

COMAL SURFACE WATER

Location / Sample Name	Date Sampled	Time Sampled	Latitude (dd)	Longitude (dd)	County	Location Generic Name
HCS110	3/16/2015	12:44	29.72043	-98.12525	Comal	Upper Springs
HCS120	3/16/2015	13:20	29.718084	-98.131644	Comal	Upper Landa Lake
FDHCS120	3/16/2015	13:20	29.709566	-98.133749	Comal	Lower Landa Lake
HCS130	3/16/2015	11:29	29.709566	-98.133749	Comal	Lower Landa Lake
HCS140	3/16/2015	13:52	29.710221	-98.129534	Comal	Upper Old Channel
HCS160	3/16/2015	14:13	29.707454	-98.122762	Comal	USGS Gauge
TB02	3/16/2015	NA	NA	NA	Comal	VOC Blank
HCS110	9/9/2015	10:11	29.72043	-98.12525	Comal	Upper Springs
HCS120	9/9/2015	10:44	29.718084	-98.131644	Comal	Upper Landa Lake
FDHCS120	9/9/2015	10:44	29.709566	-98.133749	Comal	Lower Landa Lake
HCS130	9/9/2015	9:30	29.710221	-98.129534	Comal	Upper Old Channel
HCS140	9/9/2015	11:12	29.710221	-98.129534	Comal	Upper Old Channel
HCS160	9/9/2015	11:39	29.707454	-98.122762	Comal	USGS Gauge
TB11	9/9/2015	NA	NA	NA	Comal/Hays	VOC Blank

COMAL STORM WATER

Location / Sample Name	Date Sampled	Time Sampled	Latitude (dd)	Longitude (dd)	County	Location Generic Name
HCS210 Lead	1/22/2015	0:36	29.72043	-98.12525	Comal	Upper Springs
HCS240 Lead	1/22/2015	0:51	29.710221	-98.129534	Comal	Upper Old Channel
HCS250 Lead	1/22/2015	0:35	29.709491	-98.122578	Comal	Lower Old Channel
HCS260 Lead	1/22/2015	1:10	29.708007	-98.127301	Comal	New Channel
HCS270 Lead	1/22/2015	0:54	29.704014	-98.115791	Comal	Comal River above confluence
HCS210 Peak	1/22/2015	16:28	29.72043	-98.12525	Comal	Upper Springs
HCS240 Peak	1/22/2015	16:51	29.710221	-98.129534	Comal	Upper Old Channel
HCS250 Peak	1/22/2015	16:40	29.709491	-98.122578	Comal	Lower Old Channel
HCS260 Peak	1/22/2015	17:03	29.708007	-98.127301	Comal	New Channel
HCS270 Peak	1/22/2015	16:55	29.704014	-98.115791	Comal	Comal River above confluence
HCS210 Trail	1/23/2015	3:01	29.72043	-98.12525	Comal	Upper Springs
HCS240 Trail	1/23/2015	3:21	29.710221	-98.129534	Comal	Upper Old Channel
HCS250 Trail	1/23/2015	3:03	29.709491	-98.122578	Comal	Lower Old Channel
HCS260 Trail	1/23/2015	3:36	29.708007	-98.127301	Comal	New Channel
FDHCS260 Trail	1/23/2015	3:36	29.708007	-98.127301	Comal	New Channel
HCS270 Trail	1/23/2015	3:30	29.704014	-98.115791	Comal	Comal River above confluence

FDHCS270 Trail	1/23/2015	3:30	29.704014	-98.115791	Comal	Comal River above confluence
TB01	1/23/2015	NA	NA	NA	Comal	VOC Blank
HCS210 Lead	10/23/2015	11:46	29.72043	-98.12525	Comal	Upper Springs
HCS240 Lead	10/23/2015	12:00	29.710221	-98.129534	Comal	Upper Old Channel
HCS250 Lead	10/23/2015	12:03	29.709491	-98.122578	Comal	Lower Old Channel
HCS260 Lead	10/23/2015	12:24	29.708007	-98.127301	Comal	New Channel
HCS270 Lead	10/23/2015	12:20	29.704014	-98.115791	Comal	Comal River above confluence
HCS210 Peak	10/23/2015	14:19	29.72043	-98.12525	Comal	Upper Springs
HCS240 Peak	10/23/2015	14:36	29.710221	-98.129534	Comal	Upper Old Channel
HCS250 Peak	10/23/2015	14:59	29.709491	-98.122578	Comal	Lower Old Channel
HCS260 Peak	10/23/2015	15:01	29.708007	-98.127301	Comal	New Channel
HCS270 Peak	10/23/2015	15:16	29.704014	-98.115791	Comal	Comal River above confluence
HCS210 Trail	10/23/2015	16:14	29.72043	-98.12525	Comal	Upper Springs
HCS240 Trail	10/23/2015	16:29	29.710221	-98.129534	Comal	Upper Old Channel
HCS250 Trail	10/23/2015	17:09	29.709491	-98.122578	Comal	Lower Old Channel
HCS260 Trail	10/23/2015	16:50	29.708007	-98.127301	Comal	New Channel
FDHCS260 Trail	10/23/2015	16:50	29.708007	-98.127301	Comal	New Channel
HCS270 Trail	10/23/2015	17:34	29.704014	-98.115791	Comal	Comal River above confluence
FDHCS270 Trail	10/23/2015	17:34	29.704014	-98.115791	Comal	Comal River above confluence
TB14	10/23/2015	NA	NA	NA	Comal	VOC Blank

COMAL SEDIMENT

Location / Sample Name	Date Sampled	Time Sampled	Latitude (dd)	Longitude (dd)	County	Location Generic Name
HCS310	6/4/2015	11:22	29.72043	-98.12525	Comal	Upper Springs
HCS320	6/4/2015	11:43	29.718084	-98.131644	Comal	Upper Landa Lake
HCS330	6/4/2015	12:20	29.709566	-98.133749	Comal	Lower Landa Lake
HCS340	6/4/2015	13:57	29.710221	-98.129534	Comal	Upper Old Channel
HCS360	6/4/2015	14:24	29.707454	-98.122762	Comal	USGS Gauge
FDHCS360	6/4/2015	14:24	29.707454	-98.122762	Comal	USGS Gauge
EB01	6/5/2015	15:41	NA	NA	Comal/Hays	Equipment Blank
EB02	6/10/2015	13:26	NA	NA	Comal/Hays	Equipment Blank
TB07	6/5/2015	NA	NA	NA	Comal	VOC Blank

COMAL PDS

Location / Sample Name	Installed	Retrieved	Latitude (dd)	Longitude (dd)	County	Location Generic Name
HCS410	2/3/2015 10:02	2/17/2015 11:56	29.72043	-98.12525	Comal	Upper Springs
HCS420	2/3/2015 10:13	2/17/2015 12:01	29.718084	-98.131644	Comal	Upper Landa Lake
HCS430	2/3/2015 9:11	2/17/2015 11:25	29.709566	-98.133749	Comal	Lower Landa Lake
HCS440	2/3/2015 10:27	2/17/2015 12:12	29.710221	-98.129534	Comal	Upper Old Channel
FDHCS440	2/3/2015 10:27	2/17/2015 12:12	29.710221	-98.129534	Comal	Upper Old Channel
HCS460	2/3/2015 10:38	2/17/2015 12:24	29.707454	-98.122762	Comal	USGS Gauge
TB02	2/3/2015 9:11	2/17/2015 12:24	NA	NA	Comal/ Hays	Trip Blank
HCS410	4/7/2015 10:00	4/21/2015 11:34	29.72043	-98.12525	Comal	Upper Springs
HCS420	4/7/2015 10:11	4/21/2015 11:50	29.718084	-98.131644	Comal	Upper Landa Lake
HCS430	4/7/2015 9:41	4/21/2015 11:10	29.709566	-98.133749	Comal	Lower Landa Lake
HCS440	4/7/2015 10:23	4/21/2015 12:05	29.710221	-98.129534	Comal	Upper Old Channel
FDHCS440	4/7/2015 10:23	4/21/2015 12:05	29.710221	-98.129534	Comal	Upper Old Channel
HCS460	4/7/2015 10:33	4/21/2015 12:19	29.707454	-98.122762	Comal	USGS Gauge
TB05	4/7/2015 9:41	4/21/2015 15:23	NA	NA	Comal/ Hays	Trip Blank
HCS410	6/1/2015 11:03	6/15/2015 10:39	29.72043	-98.12525	Comal	Upper Springs
HCS420	6/1/2015 11:30	6/15/2015 10:57	29.718084	-98.131644	Comal	Upper Landa Lake
HCS430	6/1/2015 10:36	6/15/2015 10:26	29.709566	-98.133749	Comal	Lower Landa Lake
HCS440	6/1/2015 11:44	6/15/2015 11:07	29.710221	-98.129534	Comal	Upper Old Channel
FDHCS440	6/1/2015 11:44	6/15/2015 11:07	29.710221	-98.129534	Comal	Upper Old Channel
HCS460	6/1/2015 11:58	6/15/2015 11:17	29.707454	-98.122762	Comal	USGS Gauge
TB09	6/1/2015 10:36	6/15/2015 14:01	NA	NA	Comal/ Hays	Test Blank
HCS410	8/13/2015 11:01	8/27/2015 13:16	29.72043	-98.12525	Comal	Upper Springs
HCS420	8/13/2015 11:08	8/27/2015 13:25	29.718084	-98.131644	Comal	Upper Landa Lake

Location / Sample Name	Installed	Retrieved	Latitude (dd)	Longitude (dd)	County	Location Generic Name
HCS430	8/13/2015 10:40	8/27/2015 12:55	29.709566	-98.133749	Comal	Lower Landa Lake
HCS440	8/13/2015 11:28	8/27/2015 13:45	29.710221	-98.129534	Comal	Upper Old Channel
FDHCS440	8/13/2015 11:28	8/27/2015 13:45	29.710221	-98.129534	Comal	Upper Old Channel
HCS460	8/13/2015 11:36	8/27/2015 13:54	29.707454	-98.122762	Comal	USGS Gauge
TB10	8/13/2015 10:40	8/27/2015 13:54	NA	NA	Comal/ Hays	Test Blank
HCS410	10/6/2015 12:19	10/20/2015 10:32	29.72043	-98.12525	Comal	Upper Springs
HCS420	10/6/2015 12:37	10/20/2015 10:42	29.718084	-98.131644	Comal	Upper Landa Lake
HCS430	10/6/2015 23:56	10/20/2015 10:16	29.709566	-98.133749	Comal	Lower Landa Lake
HCS440	10/6/2015 12:47	10/20/2015 10:54	29.710221	-98.129534	Comal	Upper Old Channel
FDHCS440	10/6/2015 12:47	10/20/2015 10:54	29.710221	-98.129534	Comal	Upper Old Channel
HCS460	10/6/2015 13:03	10/20/2015 11:03	29.707454	-98.122762	Comal	USGS Gauge
TB13	10/6/2015 12:19	10/20/2015 13:03	NA	NA	Comal/ Hays	Test Blank
HCS410	12/1/2015 10:28	12/15/2015 10:44	29.72043	-98.12525	Comal	Upper Springs
HCS420	12/1/2015 10:52	12/15/2015 10:52	29.718084	-98.131644	Comal	Upper Landa Lake
HCS430	12/1/2015 10:13	12/15/2015 10:28	29.709566	-98.133749	Comal	Lower Landa Lake
HCS440	12/1/2015 11:06	12/15/2015 11:01	29.710221	-98.129534	Comal	Upper Old Channel
FDHCS440	12/1/2015 11:06	12/15/2015 11:01	29.710221	-98.129534	Comal	Upper Old Channel
HCS460	12/1/2015 11:23	12/15/2015 11:11	29.707454	-98.122762	Comal	USGS Gauge
TB16	12/1/2015 10:13	12/15/2015 13:28	NA	NA	Comal/ Hays	Test Blank

SAN MARCOS SURFACE WATER

Location / Sample Name	Date Sampled	Time Sampled	Latitude (dd)	Longitude (dd)	County	Location Generic Name
HSM 110	3/25/2015	10:28	29.893566	-97.927631	Hays	Sink Creek
FDHSM 110	3/25/2015	10:28	29.890258	-97.934568	Hays	Spring Lake
HSM 120	3/25/2015	10:51	29.889831	-97.935957	Hays	Sessoms Creek

HSM 130	3/25/2015	11:17	29.883955	-97.935295	Hays	City Park
HSM 140	3/25/2015	11:30	29.880016	-97.932977	Hays	Rio Vista Dam
HSM 150	3/25/2015	12:25	29.87469	-97.931603	Hays	1-35 Reach
HSM 160	3/25/2015	12:50	29.87469	-97.931603	Hays	1-35 Reach
HSM 170	3/25/2015	13:18	29.868809	-97.930378	Hays	Capes Dam
TB04	3/25/2015	NA	NA	NA	Hays	Test Blank
HSM 110	9/17/2015	10:53	29.893566	-97.927631	Hays	Sink Creek
FDHSM 110	9/17/2015	10:53	29.890258	-97.934568	Hays	Spring Lake
HSM 120	9/17/2015	11:30	29.889831	-97.935957	Hays	Sessoms Creek
HSM 130	9/17/2015	11:57	29.883955	-97.935295	Hays	City Park
HSM 140	9/17/2015	12:24	29.880016	-97.932977	Hays	Rio Vista Dam
HSM 150	9/17/2015	12:51	29.87469	-97.931603	Hays	1-35 Reach
HSM 160	9/17/2015	13:18	29.87469	-97.931603	Hays	1-35 Reach
HSM 170	9/17/2015	13:47	29.868809	-97.930378	Hays	Capes Dam
TB12	9/17/2015	NA	NA	NA	Hays	Test Blank

SAN MARCOS STORM WATER

Location / Sample Name	Date Sampled	Time Sampled	Latitude (dd)	Longitude (dd)	County	Location Generic Name
HSM210 Lead	5/5/2015	22:10	29.893566	-97.927631	Hays	Sink Creek
HSM230 Lead	5/5/2015	22:20	29.889831	-97.935957	Hays	Sessoms Creek
HSM231 Lead	5/5/2015	22:11	29.886254	-97.935891	Hays	Dog Beach Outflow
HSM240 Lead	5/5/2015	22:49	29.884145	-97.935554	Hays	City Park
HSM250 Lead	5/5/2015	22:27	29.882213	-97.934867	Hays	Purgatory Creek
HSM260 Lead	5/5/2015	22:46	29.87484	-97.931713	Hays	1-35 Reach
HSM270 Lead	5/5/2015	23:06	29.868809	-97.930378	Hays	Capes Dam
HSM210 Peak	5/5/2015	23:24	29.893566	-97.927631	Hays	Sink Creek
HSM230 Peak	5/5/2015	23:35	29.889831	-97.935957	Hays	Sessoms Creek
HSM231 Peak	5/5/2015	23:50	29.886254	-97.935891	Hays	Dog Beach Outflow
HSM240 Peak	5/6/2015	00:05	29.884145	-97.935554	Hays	City Park
HSM250 Peak	5/5/2015	23:30	29.882213	-97.934867	Hays	Purgatory Creek
HSM260 Peak	5/5/2015	23:49	29.87484	-97.931713	Hays	1-35 Reach
HSM270 Peak	5/6/2015	00:06	29.868809	-97.930378	Hays	Capes Dam
HSM210 Trail	5/6/2015	1:30	29.893566	-97.927631	Hays	Sink Creek
FDHSM210 Trail	5/6/2015	1:30	29.893566	-97.927631	Hays	Sink Creek
HSM230 Trail	5/6/2015	2:15	29.889831	-97.935957	Hays	Sessoms Creek
FDHSM230 Trail	5/6/2015	2:15	29.889831	-97.935957	Hays	Sessoms Creek
HSM231 Trail	5/6/2015	2:40	29.886254	-97.935891	Hays	Dog Beach Outflow
FDHSM231 Trail	5/6/2015	2:40	29.886254	-97.935891	Hays	Dog Beach Outflow
HSM240 Trail	5/6/2015	3:05	29.884145	-97.935554	Hays	City Park
HSM250 Trail	5/6/2015	3:58	29.882213	-97.934867	Hays	Purgatory Creek

Location / Sample Name	Date Sampled	Time Sampled	Latitude (dd)	Longitude (dd)	County	Location Generic Name
HSM260 Trail	5/6/2015	4:20	29.87484	-97.931713	Hays	1-35 Reach
HSM270 Trail	5/6/2015	4:40	29.868809	-97.930378	Hays	Capes Dam
TB06	5/6/2015	NA	NA	NA	Hays	VOC Blank
HSM210 Lead	10/23/2015	15:25	29.893566	-97.927631	Hays	Sink Creek
HSM230 Lead	10/23/2015	15:41	29.889831	-97.935957	Hays	Sessoms Creek
HSM231 Lead	10/23/2015	16:02	29.886254	-97.935891	Hays	Dog Beach Outflow
HSM240 Lead	10/23/2015	15:30	29.884145	-97.935554	Hays	City Park
HSM250 Lead	10/23/2015	16:21	29.882213	-97.934867	Hays	Purgatory Creek
HSM260 Lead	10/23/2015	15:58	29.87484	-97.931713	Hays	1-35 Reach
HSM270 Lead	10/23/2015	16:15	29.868809	-97.930378	Hays	Capes Dam
HSM210 Peak	10/23/2015	17:02	29.893566	-97.927631	Hays	Sink Creek
HSM230 Peak	10/23/2015	17:16	29.889831	-97.935957	Hays	Sessoms Creek
HSM231 Peak	10/23/2015	17:06	29.886254	-97.935891	Hays	Dog Beach Outflow
HSM240 Peak	10/23/2015	17:34	29.884145	-97.935554	Hays	City Park
HSM250 Peak	10/23/2015	17:05	29.882213	-97.934867	Hays	Purgatory Creek
HSM260 Peak	10/23/2015	17:25	29.87484	-97.931713	Hays	1-35 Reach
HSM270 Peak	10/23/2015	17:45	29.868809	-97.930378	Hays	Capes Dam
HSM210 Trail	10/23/2015	20:35	29.893566	-97.927631	Hays	Sink Creek
FDHSM210 Trail	10/23/2015	20:35	29.893566	-97.927631	Hays	Sink Creek
HSM230 Trail	10/23/2015	21:01	29.889831	-97.935957	Hays	Sessoms Creek
FDHSM230 Trail	10/23/2015	21:01	29.889831	-97.935957	Hays	Sessoms Creek
HSM231 Trail	10/23/2015	21:21	29.886254	-97.935891	Hays	Dog Beach Outflow
FDHSM231 Trail	10/23/2015	21:21	29.886254	-97.935891	Hays	Dog Beach Outflow
HSM240 Trail	10/23/2015	20:51	29.884145	-97.935554	Hays	City Park
HSM250 Trail	10/23/2015	21:06	29.882213	-97.934867	Hays	Purgatory Creek
HSM260 Trail	10/23/2015	21:35	29.87484	-97.931713	Hays	1-35 Reach
HSM270 Trail	10/23/2015	21:55	29.868809	-97.930378	Hays	Capes Dam
TB15	10/23/2015	NA	NA	NA	Comal/ Hays	VOC Blank

SAN MARCOS SEDIMENT

Location / Sample Name	Date Sampled	Time Sampled	Latitude (dd)	Longitude (dd)	County	Location Generic Name
HSM 310	6/5/2015	10:03	29.893566	-97.927631	Hays	Sink Creek
HSM 320	6/5/2015	10:48	29.890258	-97.934568	Hays	Spring Lake
HSM 330	6/5/2015	11:03	29.889831	-97.935957	Hays	Sessoms Creek
HSM 340	6/5/2015	11:21	29.883955	-97.935295	Hays	City Park
HSM 350	6/5/2015	12:24	29.880016	-97.932977	Hays	Rio Vista Dam
HSM 360	6/5/2015	13:13	29.880016	-97.932977	Hays	Rio Vista Dam

HSM 370	6/5/2015	13:51	29.87469	-97.931603	Hays	1-35 Reach
FDHSM 370	6/5/2015	13:51	29.868809	-97.930378	Hays	Capes Dam
TB08	6/5/2015	NA	NA	NA	Hays	VOC Blank

SAN MARCOS PDS

Location / Sample Name	Installed	Retrieved	Latitude (dd)	Longitude (dd)	County	Location Generic Name
HSM 410	2/3/2015 11:32	2/17/2015 9:45	29.893566	-97.927631	Hays	Sink Creek
HSM 420	2/3/2015 11:45	2/17/2015 9:55	29.890258	-97.934568	Hays	Spring Lake
HSM 430	2/3/2015 11:55	2/17/2015 10:01	29.889831	-97.935957	Hays	Sessoms Creek
FDHSM 430	2/3/2015 11:55	2/17/2015 10:01	29.889831	-97.935957	Hays	Sessoms Creek
HSM 440	2/3/2015 12:06	2/17/2015 10:08	29.883955	-97.935295	Hays	City Park
HSM 450	2/3/2015 12:22	2/17/2015 10:22	29.880016	-97.932977	Hays	Rio Vista Dam
HSM 460	2/3/2015 12:33	2/17/2015 10:35	29.87469	-97.931603	Hays	1-35 Reach
HSM 470	2/3/2015 12:45	2/17/2015 10:47	29.868809	-97.930378	Hays	Capes Dam
HSM 410	4/7/2015 11:14	4/21/2015 13:51	29.893566	-97.927631	Hays	Sink Creek
HSM 420	4/7/2015 11:26	4/21/2015 14:02	29.890258	-97.934568	Hays	Spring Lake
HSM 430	4/7/2015 11:36	4/21/2015 14:21	29.889831	-97.935957	Hays	Sessoms Creek
FDHSM 430	4/7/2015 11:36	4/21/2015 14:21	29.889831	-97.935957	Hays	Sessoms Creek
HSM 440	4/7/2015 11:49	4/21/2015 14:35	29.883955	-97.935295	Hays	City Park
HSM 450	4/7/2015 12:31	4/21/2015 14:52	29.880016	-97.932977	Hays	Rio Vista Dam
HSM 460	4/7/2015 12:50	4/21/2015 15:11	29.87469	-97.931603	Hays	1-35 Reach
HSM 470	4/7/2015 13:02	4/21/2015 15:23	29.868809	-97.930378	Hays	Capes Dam
HSM 410	6/1/2015 13:47	6/15/2015 12:14	29.893566	-97.927631	Hays	Sink Creek
HSM 420	6/1/2015 13:58	6/15/2015 12:26	29.890258	-97.934568	Hays	Spring Lake
HSM 430	6/1/2015 14:08	6/15/2015 12:34	29.889831	-97.935957	Hays	Sessoms Creek
FDHSM 430	6/1/2015 14:08	6/15/2015 12:34	29.889831	-97.935957	Hays	Sessoms Creek

Location / Sample Name	Installed	Retrieved	Latitude (dd)	Longitude (dd)	County	Location Generic Name
HSM 440	6/1/2015 14:23	6/15/2015 12:47	29.883955	-97.935295	Hays	City Park
HSM 450	6/1/2015 14:46	6/15/2015 15:30	29.880016	-97.932977	Hays	Rio Vista Dam
HSM 460	6/1/2015 15:34	6/15/2015 15:43	29.87469	-97.931603	Hays	1-35 Reach
HSM 470	6/1/2015 15:59	6/15/2015 16:01	29.868809	-97.930378	Hays	Capes Dam
HSM 410	8/13/2015 13:08	8/27/2015 9:48	29.893566	-97.927631	Hays	Sink Creek
HSM 420	8/13/2015 13:21	8/27/2015 10:00	29.890258	-97.934568	Hays	Spring Lake
HSM 430	8/13/2015 13:27	8/27/2015 10:08	29.889831	-97.935957	Hays	Sessoms Creek
FDHSM 430	8/13/2015 13:27	8/27/2015 10:08	29.889831	-97.935957	Hays	Sessoms Creek
HSM 440	8/13/2015 13:39	8/27/2015 10:19	29.883955	-97.935295	Hays	City Park
HSM 450	8/13/2015 13:56	8/27/2015 10:51	29.880016	-97.932977	Hays	Rio Vista Dam
HSM 460	8/13/2015 14:25	8/27/2015 11:06	29.87469	-97.931603	Hays	1-35 Reach
HSM 470	8/13/2015 14:38	8/27/2015 11:20	29.868809	-97.930378	Hays	Capes Dam
HSM 410	10/6/2015 13:45	10/20/2015 11:54	29.893566	-97.927631	Hays	Sink Creek
HSM 420	10/6/2015 13:59	10/20/2015 12:04	29.890258	-97.934568	Hays	Spring Lake
HSM 430	10/6/2015 14:13	10/20/2015 12:10	29.889831	-97.935957	Hays	Sessoms Creek
FDHSM 430	10/6/2015 14:13	10/20/2015 12:10	29.889831	-97.935957	Hays	Sessoms Creek
HSM 440	10/6/2015 14:48	10/20/2015 12:22	29.883955	-97.935295	Hays	City Park
HSM 450	10/6/2015 14:44	10/20/2015 12:38	29.880016	-97.932977	Hays	Rio Vista Dam
HSM 460	10/6/2015 14:55	10/20/2015 12:53	29.87469	-97.931603	Hays	1-35 Reach
HSM 470	10/6/2015 15:12	10/20/2015 13:03	29.868809	-97.930378	Hays	Capes Dam
HSM 410	12/1/2015 12:48	12/15/2015 12:06	29.893566	-97.927631	Hays	Sink Creek
HSM 420	12/1/2015 13:05	12/15/2015 12:14	29.890258	-97.934568	Hays	Spring Lake
HSM 430	12/1/2015 13:15	12/15/2015 12:23	29.889831	-97.935957	Hays	Sessoms Creek

Location / Sample Name	Installed	Retrieved	Latitude (dd)	Longitude (dd)	County	Location Generic Name
FDHSM 430	12/1/2015 13:15	12/15/2015 12:23	29.889831	-97.935957	Hays	Sessoms Creek
HSM 440	12/1/2015 13:30	12/15/2015 12:35	29.883955	-97.935295	Hays	City Park
HSM 450	12/1/2015 13:45	12/15/2015 13:09	29.880016	-97.932977	Hays	Rio Vista Dam
HSM 460	12/1/2015 13:58	12/15/2015 13:19	29.87469	-97.931603	Hays	1-35 Reach
HSM 470	12/1/2015 14:12	12/15/2015 13:28	29.868809	-97.930378	Hays	Capes Dam